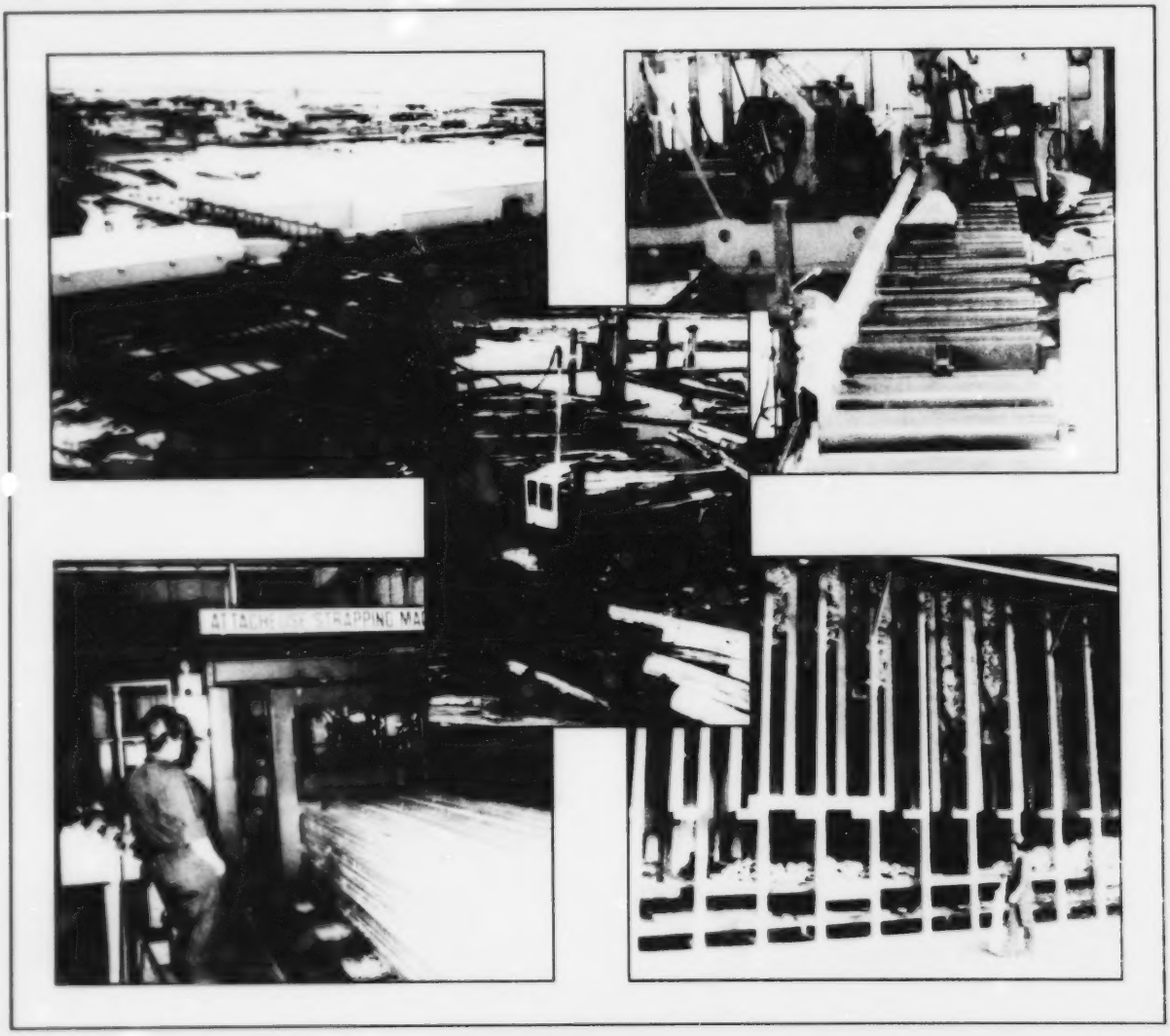
Compendium of Canadian Manufactured Sawmilling Equipment and Services

Franc Humar
Industry, Trade and Technology Branch • Information Report DPC-X-30



Forestry Canada Forêts Canada

Forestry Canada

Forestry Canada is the main focus for forestry matters in the federal government. It provides national leadership through the development, coordination, and implementation of federal policies and programs to enhance long-term economic, social, and environmental benefits from the forest sector for Canadians.

Forestry Canada is a decentralized organization with six regions, two national research institutes, and seven regional sub-offices located across Canada. Headquarters is located in the National Capital Region in Hull, Quebec.

In support of its mandate, Forestry Canada carries out the following activities:

- administers forest development agreements negotiated with the provinces
- undertakes and supports research, development, and technology transfer in forest management and utilization
- compiles, analyzes, and disseminates information about national and international forest resources and related matters
- monitors disease and insect pests in Canada's forests
- provides information, analyses, and policy advice on economics, industry, markets, and trade related to the forest sector
- promotes employment, education, and training opportunities in the forest sector
- promotes public awareness of all aspects of the forest sector

Forestry Canada interacts regularly with provincial and territorial governments, industry, labor, universities, conservationists, and the public through such bodies as the Canadian Council of Forest Ministers, the Forest Sector Advisory Council, the Forestry Research Advisory Council of Canada, the Canadian Forest Inventory Committee, the Canadian Committee on Forest Fire Management, the Canadian Interagency Forest Fire Centre, and regional consultative committees. Forestry Canada is also active in international forestry agencies such as the International Union of Forestry Research Organizations and the Food and Agriculture Organization, as well as in technical and trade missions.

Forêts Canada

Forêts Canada est l'organisme principal en matière de foresterie à l'intérieur du gouvernement fédéral. Chef de file sur le plan national, il assure la préparation, la coordination et la mise en œuvre des politiques et des programmes fédéraux dans le but d'améliorer les avantages économiques, sociaux et environnementaux à long terme offerts aux Canadiens par le secteur forestier.

Forêts Canada est une organisation décentralisée: six régions, deux instituts de recherche nationaux ainsi que sept sous-bureaux régionaux sont répartis dans tout le Canada. L'administration centrale est établie dans la région de la Capitale nationale, à Hull (Québec).

Pour remplir son mandat, Forêts Canada assume les tâches suivantes:

- il administre les accords de développement forestier conclus avec les provinces
- il entreprend et appuie la recherche, la mise au point et le transfert technologique dans le domaine de la gestion et de l'utilisation des forêts
- il rassemble, analyse et diffuse de l'information sur les ressources forestières nationales et internationales et les domaines connexes
- il fait des relevés des maladies et des insectes ravageurs des forêts canadiennes
- il fournit de l'information, des analyses et des conseils (quant aux politiques) concernant l'économie, l'industrie, les marchés et le commerce reliés au secteur forestier
- il favorise les occasions d'emploi et de formation universitaire et technique dans le secteur forestier
- il encourage les Canadiens à prendre conscience de tous les aspects du secteur forestier.

Forêts Canada entretient des rapports sur une base régulière avec les gouvernements provinciaux et territoriaux, l'industrie, le monde du travail, les universités, les environnementalistes et le public par l'entremise d'organismes comme le Conseil canadien des ministres des Forêts, le Conseil consultatif du secteur forestier, le Conseil consultatif de la recherche forestière du Canada, le Comité de l'Inventaire des forêts du Canada, le Comité canadien de la gestion des incendies de forêt, le Centre interservices des feux de forêt du Canada et des comités consultatifs régionaux. Forêts Canada joue également un rôle actif dans des organismes internationaux de foresterie comme l'Union internationale des instituts de recherches forestières et l'Organisation pour l'alimentation et l'agriculture, de même qu'au sein de délégations de nature technique ou commerciale.

Compendium of Canadian Manufactured Sawmilling Equipment and Services

Franc Humar, P. Eng.

Scientific authority
D.V. Myles
Forestry Canada

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Cette publication est également disponible en français sous le titre *Inventaire de l'équipement de scierie d'origine canadienne et services*.

FOREWORD

This compendium on Canadian Sawmilling Equipment and Services was contracted to Franc Humar, Professional Forester and Engineer through the Science Branch of the Department of Supply and Services. It was sponsored by Forestry Canada and the Department of External Affairs with Mr. D.V. Myles of Forestry Canada as the scientific authority on the project. It was produced with the assistance of the Canadian sawmill equipment manufacturers who responded to the detailed questionnaires. Without their good co-operation, this publication would not be possible.

Every attempt has been made to include all forestry sawmill machinery and equipment manufactured in Canada.

Any errors or omissions are strictly unintentional, and the fact that one machine may be listed and another omitted is not an endorsement of a particular machine.

This compendium is intended to provide information on the various kinds of sawmilling equipment and services manufactured in Canada.

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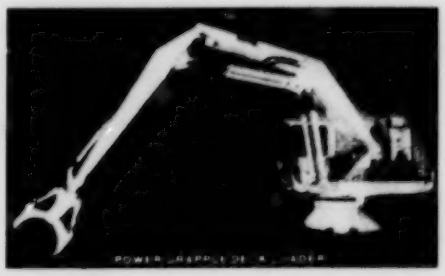
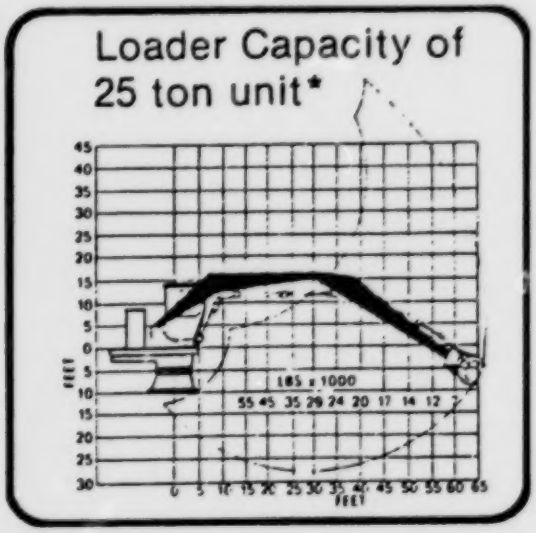
WOODYARD MACHINERY

Grapple Loaders
Conveyors

NICHOLSON POWER GRAPPLE LOG LOADERS

Available in loader sizes: 5 080 kg (5 tons), 10 160 kg (10 kg), 15 240 kg (15 tons), 25 400 (25 tons).





The Nicholson 25-ton power grapple loader

Particular Specifications

Loader size	5T	10T	15T	25T
Stand reach, m (ft)	9.14 (30)	9.14 (30)	12.19 (40)	16.76 (55)
Max. reach, m (ft)	12.19 (40)	12.19 (40)	15.29 (50)	19.81 (65)
Slew bearing dia. mm (in)	1575 (62)	1575 (62)	1661 (65.4)	1727 (68)
Grapple size, mm (in)	864 (34)	864 (34)	1041 (41)	1041 (41)
Weight, kg (lb)	9 080 (20 000)	13 620 (30 000)	19 068 (42 000)	40 257 (88 750)

Mechanical Specifications

Lift, 4.6 m (15 ft) std. reach, kg (lb)	4 990 (11 000)	8 165 (18 000)	14 062 (31 000)	24 948 (55 000)
Slew speed, rpm	4	4	3	2.5
Slew torque kg/m (lb/ft)	3 736 (27 000)	3 726 (27 000)	4 140 (30 000)	7 590 (55 000)
Hyd. power, no. motors @ kw (hp)	2 @ 37 (50)	2 @ 44 (60)	2 @ 56 (70)	2 @ 75 (100) 1 @ 56 (75)

Operational Specifications

The power grapple's universal joint permits rotation of the grapple 240 degrees, and for it to tilt up and down. The grapple can lift, sort, rake and turn logs end-for end.

Movements of the power grapple, boom and stick are controlled with a single joy stick. Remote or dual control can be supplied optionally. This permits the loader to be controlled from a remote station or from the cab in combination with a remote location.

The loader's normal rotation is 315 degrees, however 360 degree continuous rotation can be supplied.

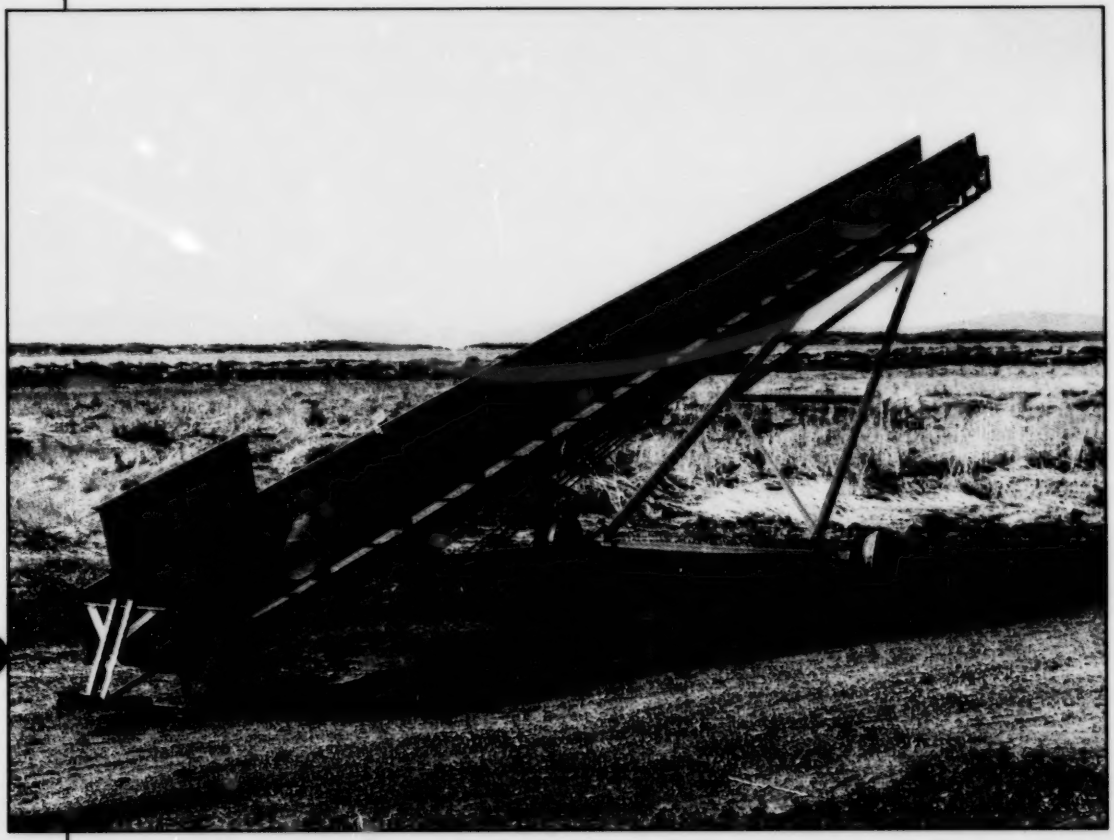
Extended stick or boom, or both are also available.

MANUFACTURER:

NICHOLSON MANUFACTURING LTD.

327 Harbour Road
Victoria, B.C., V9A 3S2
TEL: (604) 385-6757
FAX: (604) 385-6454
TELEX: 04-97215

DESJARDINS CONVEYORS



PRICE: Approx. by the metre (foot)
F.O.B. St-André, Que. (1988)

Les Industries Desjardins are manufacturers of farm and sawmill machinery, as well as distributors of hydraulic accessories, electrical motors and accessories, and other sawmill accessories.

Conveyors are available in mobile or fixed configurations.

Particular Specifications

Height, cm	Adjustable
Length, cm (in)	according to specification
Width, cm (in)	20 cm (8 in) to 76 cm (30 in)
Weight, kg (lb)	according to specifications

Mechanical Specifications

Corrugated and tubular steel
Electric or gasoline motor
Dimensioned to meet buyers demands

Operational Specifications

Conveyors are available in fixed and mobile configuration models. Used for chips, shavings, wood pieces and other materials.

MANUFACTURER:

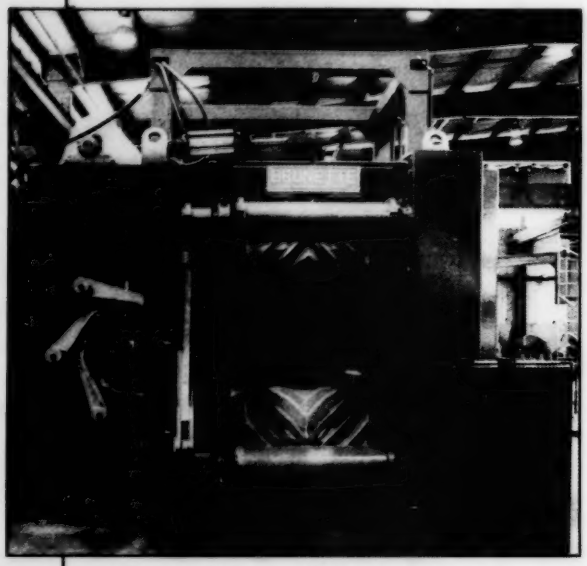
LES INDUSTRIES DESJARDINS LTÉE

79, rue Principale
St-André
Quebec G0L 2H0
TEL: (418) 493-2114
FAX: (418) 493-2432

LOG HANDLING

Debarkers
Log Turners
Feeders

VALON KONE BRUNETTE RING DEBARKER



Valon Kone Brunette 27" Mark VII ring debarker with centering infeed conveyor (left).
Valon Kone Brunette 21" Mark VII ring debarker (right).

Valon Kone Brunette 18 in., 21 in., 27 in., and 35 in. Mark VI and VII Ring Log Debarkers: 21 in., 27 in., 35 in., 43 in., 50 in., 60 in., and 72 in. Mark IV; 18 in., 21 in., and 27 in. Mark V debarkers. The Company also manufactures sawmill equipment, hydraulic and mechanical barking machinery, paper mill machinery and parts, plywood machinery and parts, pulp mill and pulpwood machinery and equipment, belt, disc, and drum sanders, saw, shingle and planing mill machinery, sawmill equipment and parts, portable sawmills, screens, chips.

Particular Specifications

The Mark VII features: 6 individually powered self-centering feed rolls — 3 IN and 3 OUT, or 12 individually powered self — centering feed rolls — 6 IN and 6 OUT; self-centering chain conveyor with or without powered top roll, modified tool arm and pivot design, powered side pull-out of rotor to bypass oversized logs and for ease of maintenance, single, multiple or variable speed electric feed drives.

Barker Ring Assembly — Barking is accomplished by easily replaceable barking tools with bolt-on inserts mounted outboard on the infeed of the rotor assembly to prevent bark accumulation in the barking ring. Barking pressure to each tool is accomplished by individual air cylinders mounted in the rotor. Tool arm pressure may be instantly and infinitely adjusted at any time from the operator's console.

Air Seal — The patented VALON KONE BRUNETTE rotary air seal assembly provides for uniform, instant, infinite finger-tip tool pressure control at all times. The pneumatic pressure control system enables the VALON KONE BRUNETTE barker to debark effectively at extremely low temperatures and adapt to changes in wood species and other variable conditions.

Debarking Tools — 4, 5 or 6 heavy duty, self-opening debarking tools with quickly and easily replaceable bolt-on tips.

Tool Cylinders — 4, 5 or 6 heavy duty VALON KONE BRUNETTE air cylinders, complete with large diameter double trunnion mounts in wide face bronze alloy bushings.

Automatic Log Centering — 6, 9 or 12 centering roll assemblies.

Roll Feedworks — 2, 3 or 4 tri-roll feed assemblies are spaced equidistant about the debarker ring providing automatic centering and positive log control throughout the debarking operation.

Main Frame — Base frame incorporating the feedworks mechanism is constructed of heavy structural tubular sections and mild steel plate. Heavy sheet steel is used to enclose frame assembly, with hinged large full-access doors on clear side of frame.

Lubrication — Force-feed multiple pump automatic lubrication system to lubricate rotor air seal, ring drive roller chain and hold-down cylinders is included. Oil pressure system is also provided with protective warning system and ring drive interlock to guard against loss of lube oil pressure.

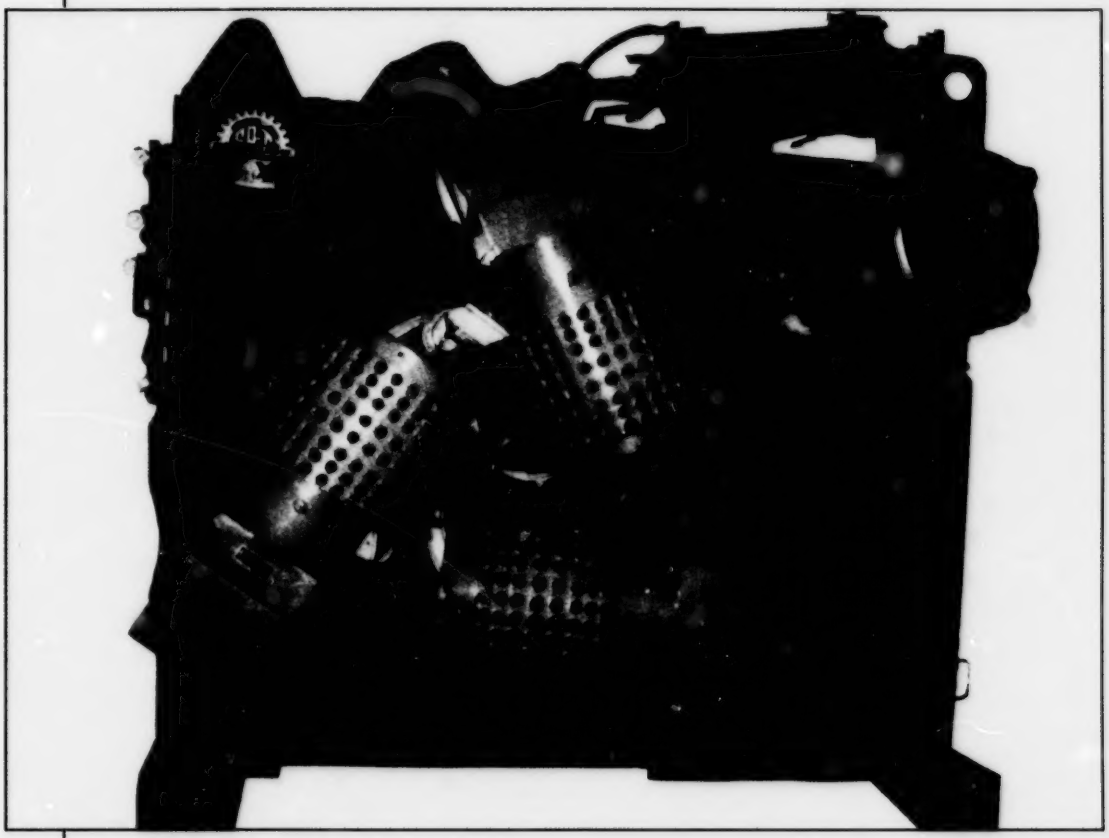
Operator's Console Controls — This is provided with all necessary control valves, pushbutton stations, toggle controls oil and air pressure gauges and electrical lock-out protection required for the efficient operation and control of the debarker.

All Valon Kone Brunette ring debarkers consistently debark logs to a cleanliness of maximum 0.5% bark and less.

MANUFACTURER:

VALON KONE BRUNETTE LTD.

330 Edworthy Way
New Westminster
B.C. V3L 5G5
TEL: (604) 522-3977
FAX: (604) 522-6806
TELEX: 04-351189



Comact Model CO-T 820 ring type log debarker with 6 high resistance alloy steel knives.

Comact are specialists in fabricating sawmilling equipment. In the debarker line, the Company manufactures the model CO-T 820 ring type log debarker, models CO-T 820B, and CO-T 826 debarkers.

Particular Specifications

Model CO-T 820	
Length, cm (in)	312 (123)
Height, cm (in)	234 (92)
Width, cm (in)	157 (62)
Estim. weight, kg (lb)	7 258 (16 000)

Mechanical Specifications

Model CO-T 820	
Rotor power, kW (hp), electric motor	14.9 (20)
Variable infeed speed, mpm (fpm)	from 27.4 (90) to 61 (200)
Infeed drive power, kW (hp) electric motor	7.5 (10)
No. self centering feed rolls	8
No. high resistance alloy steel knives	6
Model CO-T 820B	
Infeed drive power, kW (hp), hydraulic	14.9 (20)
Rotor drive power, kW (hp)	22.4 (30)
Model CO-T 826	
Infeed drive power, kW (hp), hydraulic	29.8 (40)
Rotor drive power, kW (hp)	44.7 (60)

Operational Specifications

Capacity: CO-T 820	
Log range diam., cm (in)	7.6 (3) to 51 (20)
Length, from 1.2 m (4 ft) to tree length	
CO-T 820B	
Log range diam., cm (in)	7.6 (3) to 61 (24)
Length, from 2.3 m (7.5 ft) to tree length	
CO-T 826	
Log range diam., cm (in)	8.9 (3.5) to 66 (26)
Length, from 2.3 m (7.5 ft) to tree length	

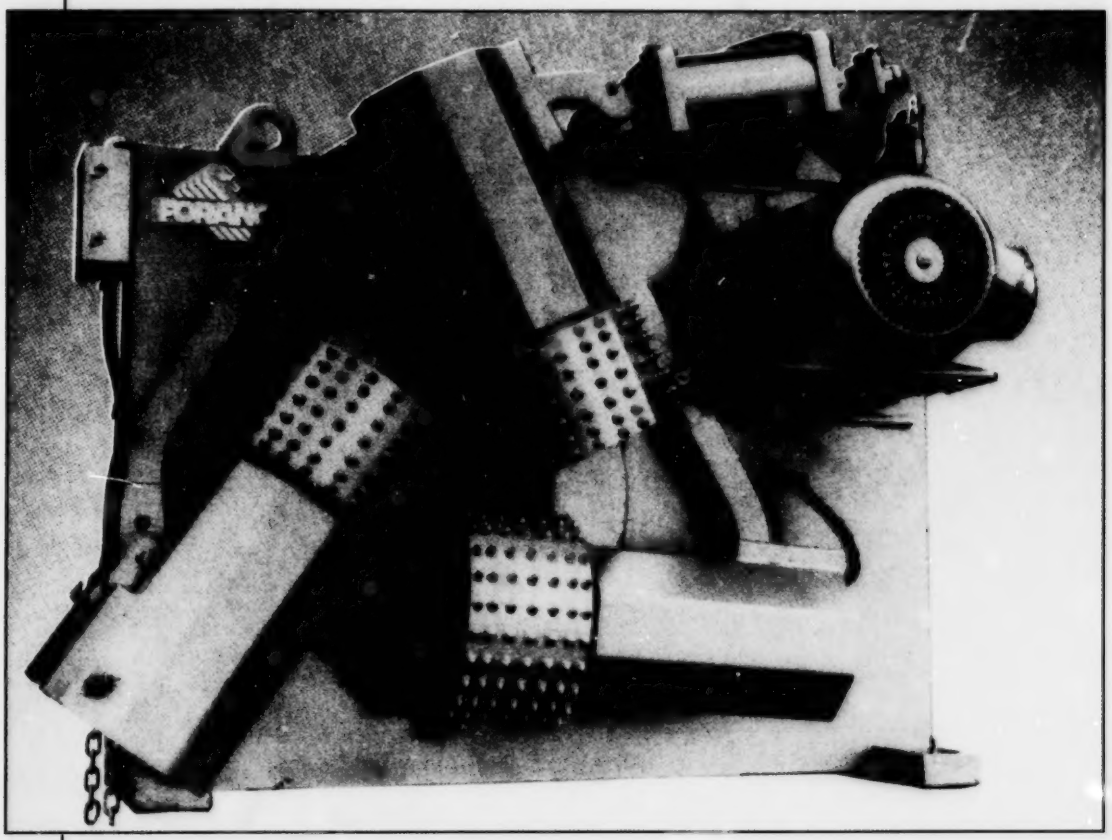
MANUFACTURER:

COMACT INC.

4000, 40e rue
St-Georges, Que.
G5Y 5K6
TEL: (418) 228-8911
FAX: (418) 228-7466
TELEX: 05-833510

FORANO DEBARKERS

Canadian made log debarkers have been built by Forano over the past 25 years. They are available as the: 18 in. log debarker, 25 in. hydraulic debarker, 30 in. hydraulic debarker, and the 18 in. E. V. debarker.



Forano 18 in. E.V. Debarker shown by customers to be used at 250 ft/min. (6 tools) and 220 ft/min. (5 tools).

Particular Specifications

Model	18 in.	18 in. E. V.	25 in. Hyd.	30 in. Hyd.
Width, mm (in)	2420 (95.25)	2003 (78.9)	2642 (104)	2985 (117.5)
Height, mm (in)	1735 (68)	1740 (68.5)	2210 (87)	2470 (97.3)
Depth, mm (in)	1365 (53.75)	1343 (52.9)	1883 (74.1)	1883 (74.1)
Shipping Weight kg (lb)	2 700 (5 960)	3 600 (8 000)	9 072 (20 000)	10 200 (10 200)
Net Volume m^3 (ft^3)	5.8 (205)			

Mechanical Specifications

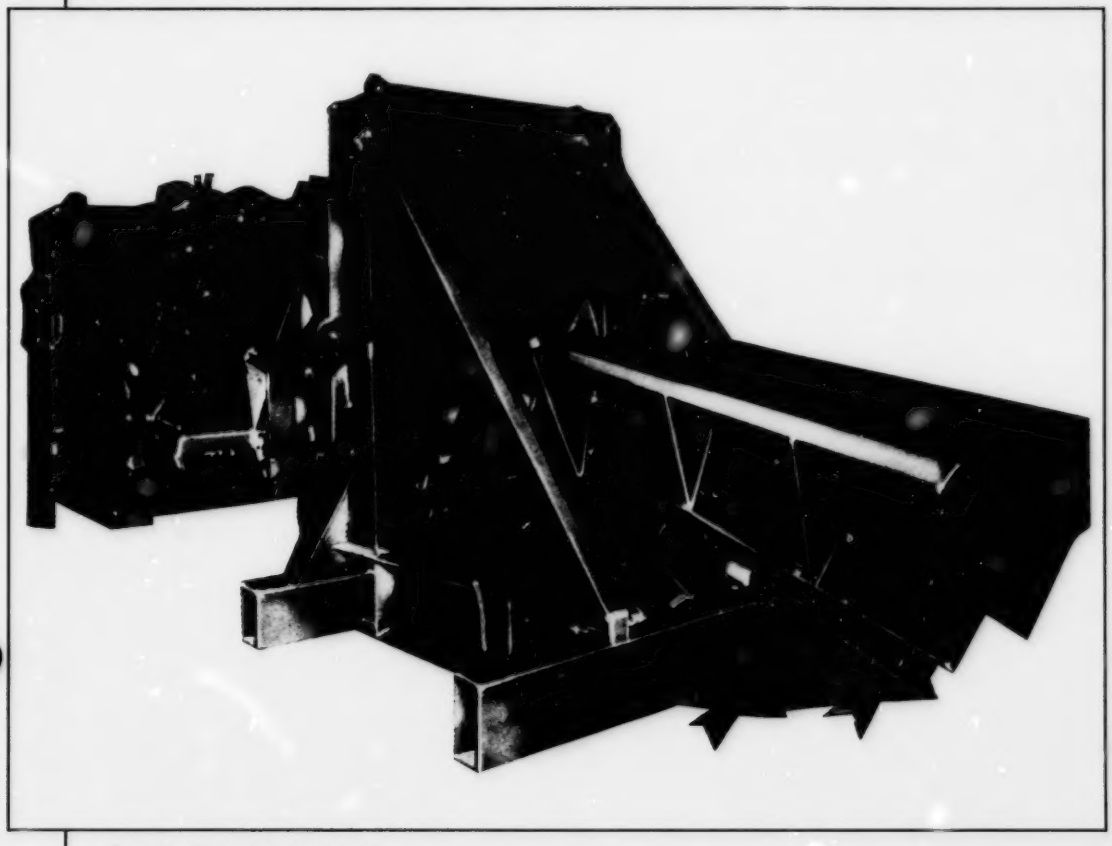
Model	18 in.	18 in. E. V.	25 in. Hyd.	30 in. Hyd.
Feed Rate, m/min (ft/min)	54 to 76 (180 to 250)	33 to 663 (5 tools) 33 to 73 (6 tools) (110 to 210) (5 tools) (110 to 240) (6 tools)	68 (225)	49 (5 tools) 61 (6 tools) (160) (5 tools) (200) (6 tools)
Debark Range Diameter, mm (in)	65 to 450 (2.5 to 18)	64 to 457 (2.5 to 18)	90 to 635 (3.5 to 25)	114 to 762 (4.5 to 30)
Min. Log Length with guides, m (ft)	1.2 (4)	1.5 (5)	1.5 (5)	1.8 (6)
Rotor Motor, kW (hp)	29 (40)	37 (50)	56 (75)	56 (75)
Feedworks Motor, kW (hp)	6 x 3 (4)	6 x 2.2 (3)		
Pumping unit Motor, kW (hp)			2 x 18.6 (25)	2 x 18.6 (25)

MANUFACTURER:

FORANO LTD.

1600 St-Paul
Plessisville
Que. G6L 2Y9
TEL: (819) 362-7361
FAX: (819) 362-6523
TELEX: 05-838585

KOCKUMS CANCAR CAMBIO DEBARKERS WITH LOG CENTERING INFEED



From Kockums Cancar state of the art Cambio debarkers with log centering infeed.

Kockums Cancar is one of North America's largest high technology sawmill manufacturers. The Company provides a full line of sawmilling machinery and services, including log handling equipment such as debarkers, log turners and loaders, and feeders; log breakdown equipment consisting of log carriages, bandmills and chipper canters; main sawing equipment such as resaws, edgers, trim saws and optimizers.

Particular Specifications

Feedworks, Rotor: major design changes and innovations for low maintenance and with emphasis on high production.

High strength alloys.

Models available with: slide out rotors for fast easy maintenance, twin rotors for maximum up-time and variable speed to give extra operating flexibility.

Standard conversion packages are available to upgrade existing debarkers, to include features employed in the Cambio Debarker.

Operational Specifications

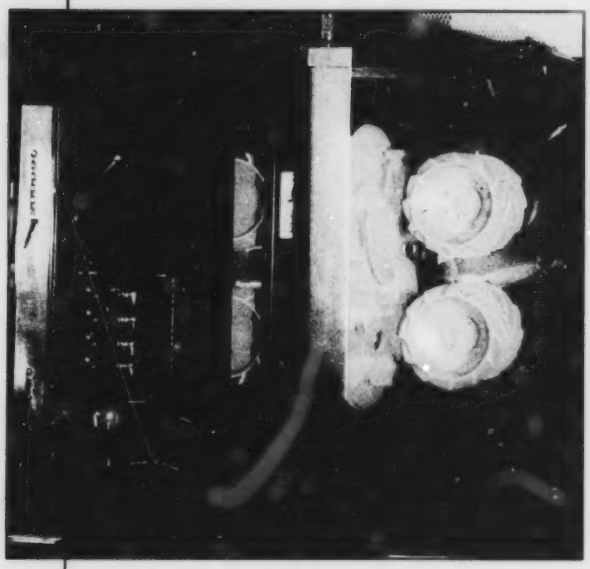
Handles both hardwood and softwood. Feedrates up to 280 F.P.M.

MANUFACTURER:

KOCKUMS CANCAR

P.O. Box 4200 Main Post Office
19433 96th Avenue
Surrey, Vancouver, B.C.
V6B 4K6
TEL: (604) 888-1515
TELEX: 043-05531
or
172 Merizzi Street
Montreal, Que.
H4T 1S4
TEL: (514) 731-6437
TELEX: 05-824567

Nicholson Debarkers are available in series A1, A2 and A5 with: A1, the heaviest and fastest, fully automated chainfeed debarkers; A2 medium speed, chain feed debarkers; and A5 series fixed ring, high speed, automatic debarkers for mill and woods.



Nicholson series A5 debarker, full automatic high production debarker, designed to debark hardwoods, softwoods, frozen wood, short logs, tree-length logs and crooked logs.

Nicholson also manufacturers whole log chippers, waste wood chippers, rechippers, woodfuel processors, grapple log loaders, screens, saw frames, portable equipment, wood shears and custom engineering.

Operational Specifications

The A5 debarker is a fixed ring, fully automatic, high production machine designed for virtually all debarking situations on logs as short as 1.98 m (6ft.) and speeds to 114.3 m/min (375 fpm). The A5 is available in 432 mm (17 in), 559 mm (22 in), 686 mm (27 in) and 889 mm (35 in) sizes.

The A5 is particularly suited for short log applications, crooked logs and high production requirements.

The A5 debarker is available in two designs: the Nicholson Air Seal Ring optional, and particularly suited to difficult debarking conditions; and the patented Nicholson Air Cell Ring, standard, and recommended for most high speed debarking applications.

The Air Cell Ring is: 1. Less complicated. 2. Lower maintenance costs, no air seal, no lubricator. 3. A 20% higher throughput speed.

The Air Cell Ring can: 1. Vary barking pressure during debarking, for maximum barking quality. 2. Open and close arms remotely to avoid log jamming. 3. Eliminate all log end damage using automatic knife arm control. 4. Stop the log in the debarker for bucking without wood damage, since the arms automatically open and close when the feedworks stop and start.

The A1 debarker features the heaviest frame and feedworks components in the Nicholson line of debarkers, putting it in the extra heavy duty class. It is ideal for hardwood, and fitted with special knife arms. It will debark Western redwood, Cedar, Southern Cypress and Australian Eucalypt, and can successfully debark at temperatures down to −40°C (−40°F).

The A1 debarker uses two separate debarking rings, one larger diameter, and one small diameter, arranged in tandem to handle large and small logs in a single line.

The programmable controller system supplied with the A1 debarker allows fixed or variable speed operation, automatically controlling knife arm opening and closing. Temposonic hydraulic cylinders can be supplied to electronically position the ring and hold downs.

The A2 series medium speed, chain feed, debarker is a versatile debarker servicing both existing woodyards and modern mills. It can be fitted with two different types of ring; the air seal ring, or the lower cost air cell ring. It will debark hardwoods and softwoods at temperatures down to −40°C (−40°F).

Particular and Mechanical Specifications

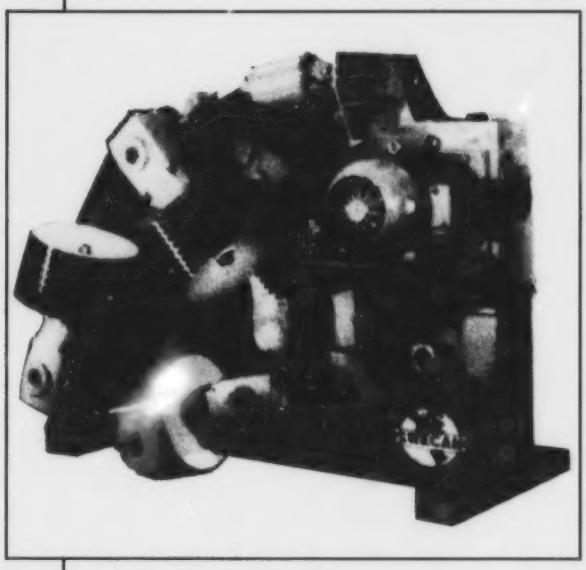
Model: A5 Debarker

Debarker Size mm (in.)	432 (17.0)	558 (22.0)	686 (27.0)	889 (35.0)
Number of Knives	6	6	6	6
Knife Coverage @ max. RPM m/min (fpm)	132 (431)	113 (368)	97 (315)	83 (270)
Max. Rated Feed Speed with 15% Knife Overlap m/min (fpm)	115 (375)	99 (320)	85 (275)	72 (235)
Min. Log Length m (ft)	1.85 (6.0)	1.98 (6.5)	2.15 (7.0)	2.43 (8.0)
Normal Ring Drive Motor kW (HP) @ RPM	75 (100) @ 1200	75 (100) @ 1200	75 (100) @ 1200	75 (100) @ 1200
Feed Drive Motor Min. kW (HP) @ RPM	30 (40) @ 1800	30 (40) @ 1800	30 (40) @ 1800	30 (40) @ 1800
Debarker Weight kg (lb)	15 422 (34 000)	17 727 (39 000)	20 408 (45 000)	30 385 (67 000)

MANUFACTURER:

NICHOLSON MANUFACTURING LTD.

327 Harbour Road
Victoria, B.C. V9A 3S2
TEL: (604) 385-6757
FAX: (604) 385-6454
TELEX: 04-97215



Swecan Heavy Duty model 30-76 Debarker

Swecan line of products includes chipper canters with 2, 3 or 4 chipper heads; combination chipper canter/twin or quad band saws; single, twin and quad band edgers; 18 in., 26 in. and 30 in. ring type debarkers/spare parts; wide band saw blades/bent chipper knives.

Swecan line of debarkers include: models Super 18-45, High Performance model 24-60, Extra Heavy Duty model 30-76, Super 26-HD High Speed type and the Heavy Duty model 30-76.

Particular Specifications

Frame: Steel fabrication, precision machined debarker frame incorporating the rotor, lubrication reservoir, drive chain and sprockets for feedworks.

Rotor: Cast steel rotor, statically and dynamically balanced. Mounted on auto lubricated ball bearing. Equipped with five self-opening forged tools. Adjustable pressure on tools provided by hydraulic system. Rotating power for rotor provided by a single poly-vee belt.

Feedworks: Three spiked rolls at the infeed and a duplicate set at the outfeed. Driven feed rolls are self-centering, self-opening.

Model 30-76

Dimensions: mm (in)
2595 (102.19) x 3000 (118.13) x 2200 (86.63)
Shipping Weight: 10 200 Kg (22 500 lb)

Model 18-45

Dimensions: mm (in)
1727 (68) x 1905 (75) x 1333 (52.5)
Shipping Weight: 3 640 kg (8 000 lb)

Mechanical Specifications

Model 30-76

Rotor motor: 55.8 kW (75 hp) - 1200 rpm - 60 Hz
55.8 kW (75 hp) - 1450 rpm - 50 Hz
Feedworks motor: 11.1 kW (15 hp) - or hydraulic drive.

Model 18-45

Rotor motor: 29.8 kW (40 hp) - 1200 rpm - 60 Hz
37.3 kW (50 hp) - 1450 rpm - 50 Hz
Feedworks motor: 5.6 kW (7.5 hp) or hydraulic drive.

Operational Specifications

Model 30-76

Maximum recommended feed speed is 61 mpm (200 fpm)
Barking range: Logs in diameter of 11.5 cm (4.5 in) to 76 cm (30 in)
Minimum log length: 3 m (10 ft)
Maximum log length: Tree length

Model 18-45

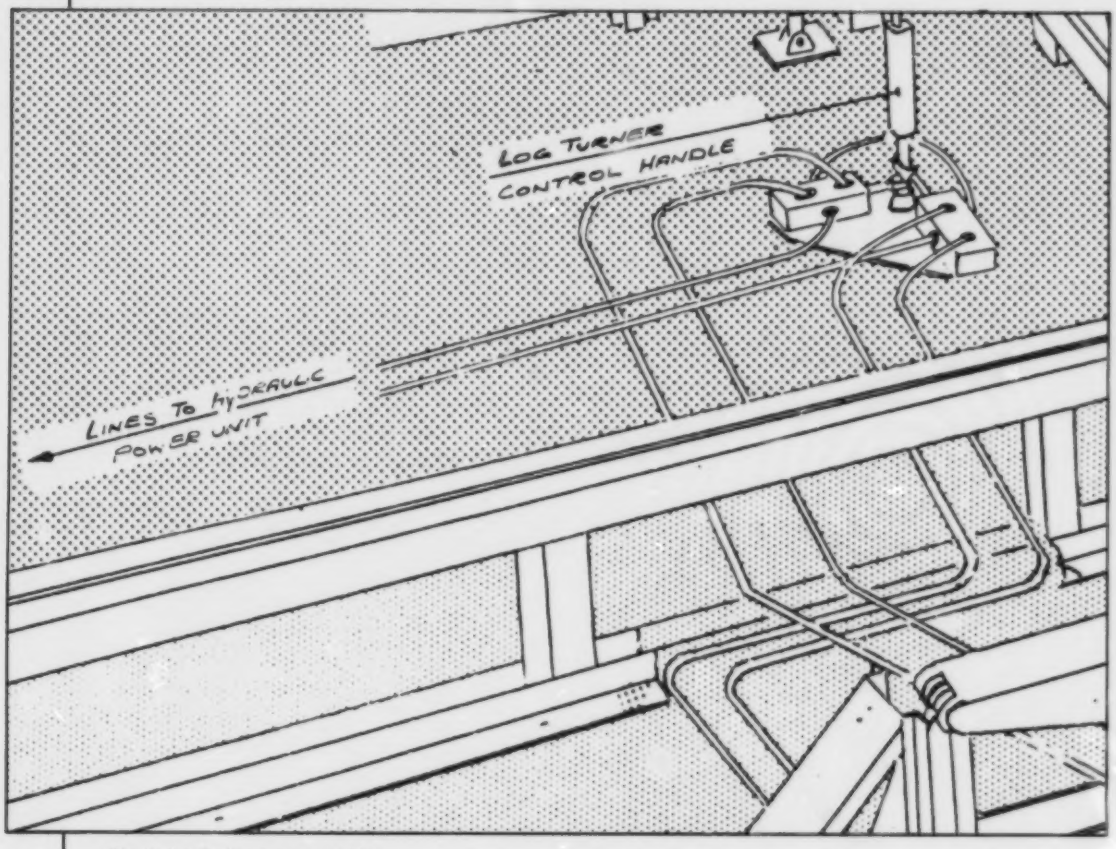
Maximum recommended feedspeed is 73 mpm (240 fpm)
Barking range: Logs in diameter of 6.5 cm (2.5 in) to 45 cm (18 in)
Minimum log length: 2.4 m (8 ft)
Maximum log length: Tree length
Infeed and outfeed conveyors are also available.

MANUFACTURER:

SWECAN INTERNATIONAL LTD.

Lanoraie, Que.
J0K 1E0
TEL: (514) 887-2313
FAX: (514) 887-2174
TELEX: 05-25609

ALMAC LOG TURNER AND LOADER



The hydraulic log turner working from a single joystick lever control, the unit will handle logs up to 91 cm (36 in) in diameter.

The hydraulic log turner is designed for automatic, semi-automatic and even manually operated carriages. Available also as air-operated model. Almac (formerly Coutts Machinery) manufactures a sawmilling line from complete sawmills to log handling, log breakdown and lumber handling equipment.

Particular Specifications

Height, retracted, cm (in)	61 (24)
Length, cm (in)	188 (74)
Width, cm (in)	43 (17)
Total weight, kg (lb)	454 (1,000)

Mechanical Specifications

Power range, kW (hp) 3.7 - 6.0 (5 - 8)
Electric motor, power unit, or countershaft via V-belt drive

Operational Specifications

Single, joystick lever controlled by the sawyer, operates a dual valving system (with built-in relief valve) to actuate two cylinder assemblies, which work independently to perform the required log movement.

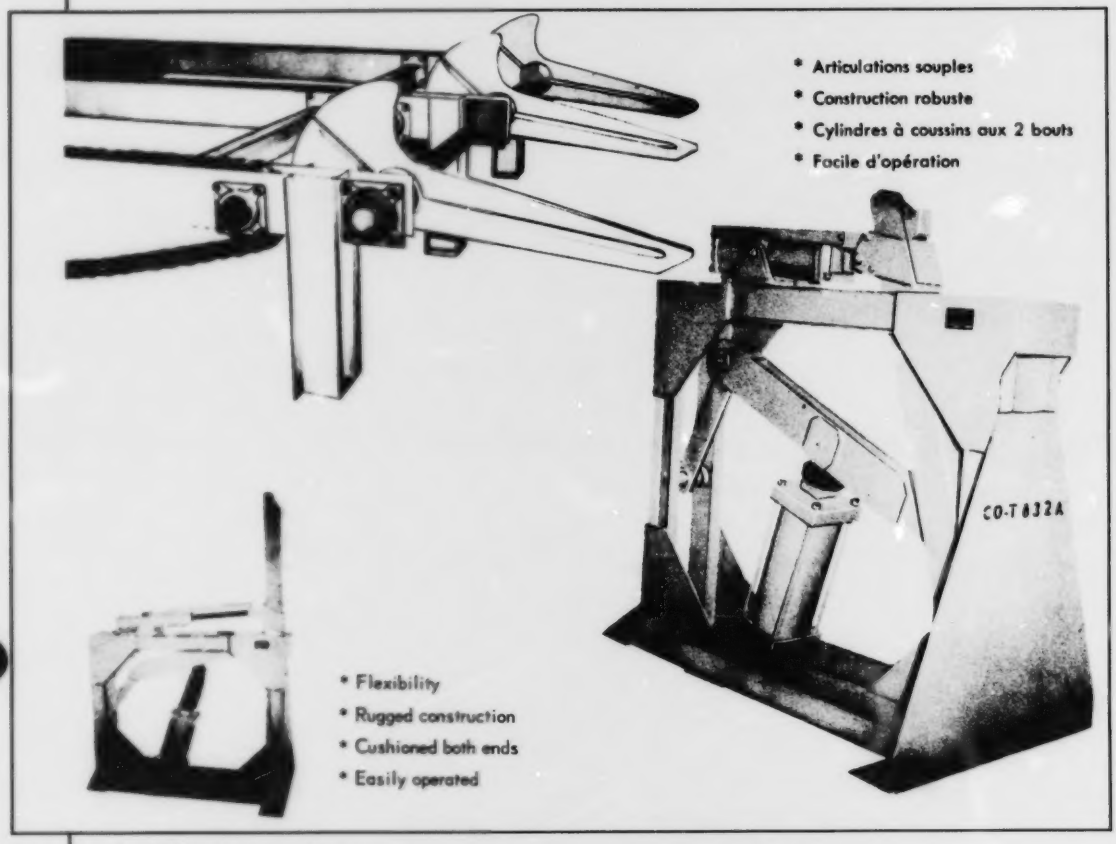
When used in conjunction with a log haul or transfer, live log deck, log stopper and loader, log kicker and automatic carriage, the need for operating personnel between the pond and sawyer is eliminated. On a manually operated mill, the hydraulic log turner cuts the bullwork, permits the processing of logs more rapidly, and results in more sawing time per hour.

MANUFACTURER:

ALMAC MACHINE WORKS LTD.

9539 — 56 Ave.
Edmonton, Alta.
T6E 0B2
TEL: (403) 434-3402
FAX: (403) 437-3507

COMACT LOG LOADER AND TURNER



Comact log loader and log turner. The hard tempered teeth of the turner grasp and hold a log securely during quarter, half or full turns.

The combination of model CO-T 833 loader and CO-T 832A log turner provides for easy loading and positioning of logs in the sawmill.

Particular Specifications

Loader:	
Diam. of cylinder, cm (in)	15.2 (6)
Stroke of cylinder, cm (in)	33 (13)
Diam. of cyl. axle, cm (in)	4.1 (1 5/8)
Length of arms from axle centre, cm (in)	95 (37 1/2)
Turner:	
Diam. of cylinders, cm (in)	12.7 (5) & 20.3 (8)
Stroke, cm (in)	46 (18) & 37 (14.5)
Stroke of turner arm, cm (in)	76.2 (30)

Mechanical Specifications

Loader req. pressure, kg (lb)	36.3 (80) - 45.4 (100)
Turner req. pressure, kg (lb)	45.4 (100) - 56.7 (125)
Compressor recommended with 2 units, kW (hp)	75 (10)

Operational Specifications

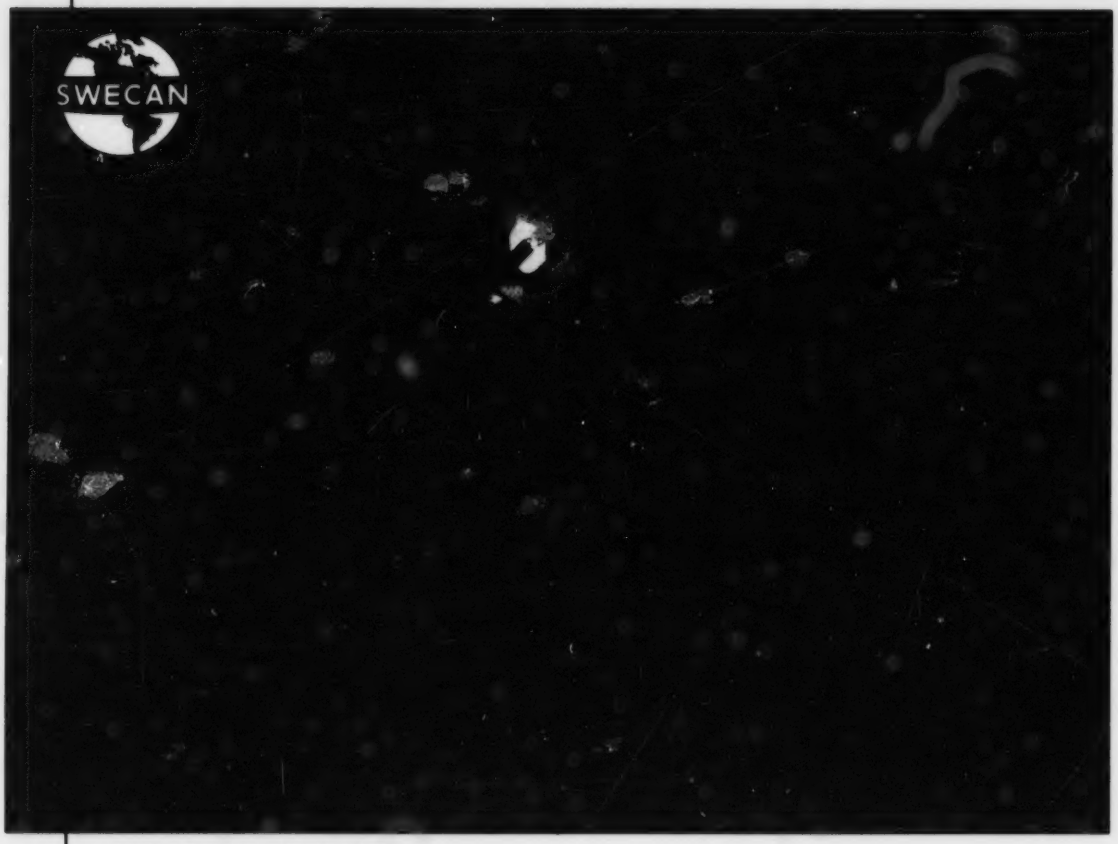
The equipment is adapted to the requirements of all sawmills. It can speed up production, cut work hazard, and free one or more men from a crew for other work.

MANUFACTURER:

COMACT INC.

4000, 40e rue
St-Georges, Que.
G5Y 5K6
TEL: (418) 228-8911
FAX: (418) 228-7466
TELEX: 05-833510

SWECAN LOG TURNER



Swecan Log Turner Model LT-26 rotates logs while in continuous motion to obtain for each log the best position for most favourable lumber recovery.

Swecan line of products includes chipper canters with 2, 3 or 4 chipper heads; combination chipper canter/twin or quad band saws; single, twin and quad band edgers; 45.7 cm (18 in.), 66 cm (26 in.) and 76.2 cm (30 in.) ring type debarkers/spare parts; wide band saw blades/bent chipper knives.

Swecan Log Turner Model LT-26.

Particular Specifications

Dimensions: m (ft) 2.7 (8.75) x 2 (6.58) x 1.7 (5.5)
Weight: kg (lb) 2000 (4400)

Mechanical Specifications

Feed speed up to 110 m (350 f.p.m.)
Hydraulic Power unit with 14.9 kW (20 hp)

Operational Specifications

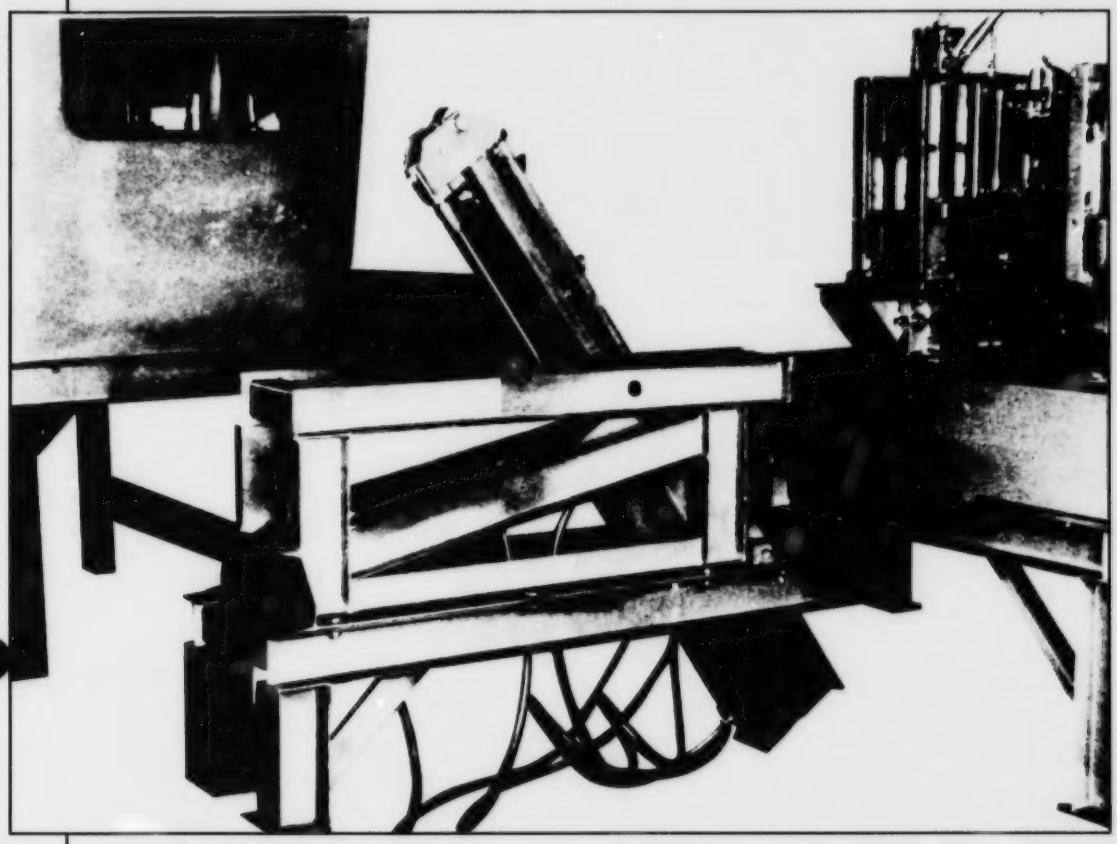
Capacity: for logs 76 mm (3 in) to 660 mm (26 in)
Logs are oriented by two vertical rolls which tilt forward or backward for extreme rapidity of log rotation. Rolls are driven by variable speed hydraulic gear motors and controlled pneumatically.

MANUFACTURER:

SWECAN INTERNATIONAL LTD.

Lanoraie, Que.
J0K 1E0
TEL: (514) 887-2313
FAX: (514) 887-2174
TELEX: 05-25609

T.S. LOG TURNER



Shown is the T.S. heavy duty bar type pneumatic log turner built for fast, precise, rugged performance.

T.S. Manufacturing designs and manufactures machinery at their Lindsay, Ontario plant for a wide range of mills throughout the world. They do everything from a single machine modification or rebuilding, to turnkey projects, including concept engineering, manufacturing and installation.

T.S. Manufacturing makes a full line of log handling and processing equipment, lumber handling and processing equipment, waste handling and processing equipment, complete sawmills, planing mills and wood room installations.

Particular Specifications

High tensile steel replaceable dogs
Heavy duty cushioned air cylinders
Turner bar is of alloy steel
Air operated mechanism
Joystick control of the oversize valve for accurate log control (air only).

Operational Specifications

Designed to operate with double cut operations, dropping below deck line. Available as hydraulic, or extra heavy duty hydraulic, for tropical hardwoods.

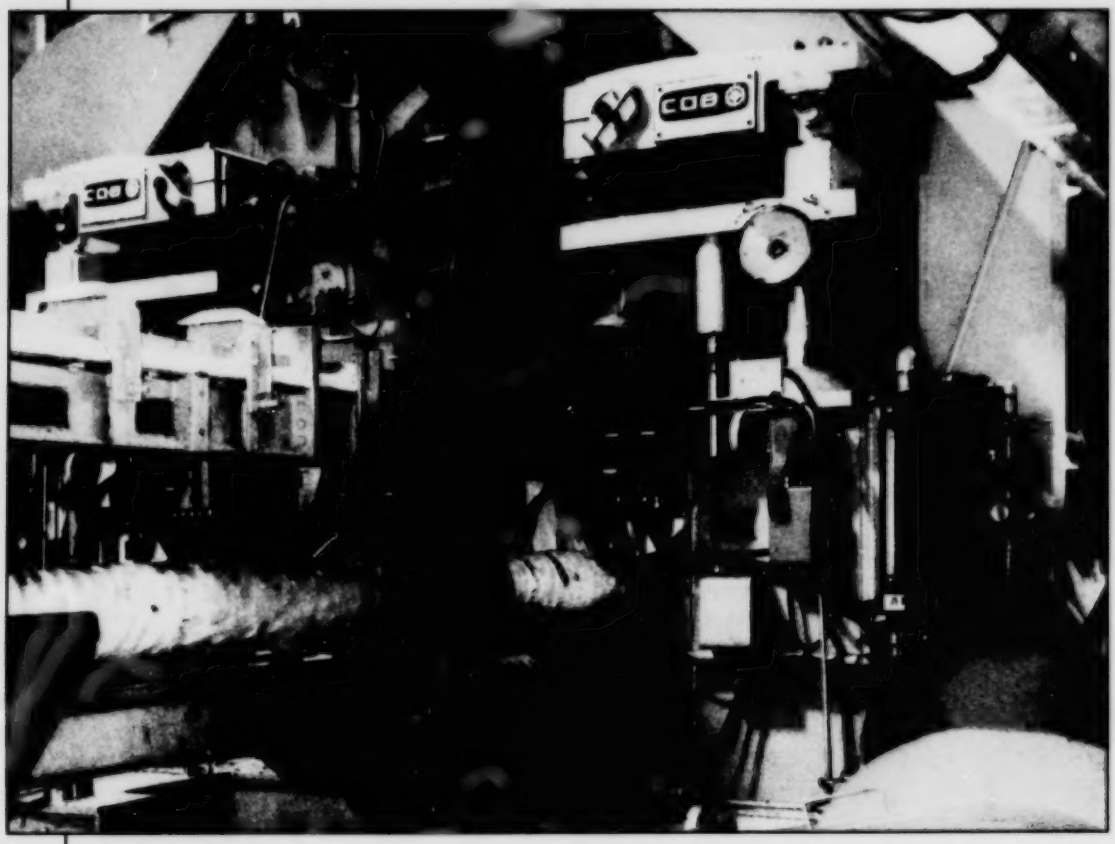
Requires no special foundations, and is available with special sub-frames for custom mounting applications.

MANUFACTURER:

T.S. MANUFACTURING COMPANY

P.O. Box 487
55 Needham Street
Lindsay, Ontario
K9V 4S5
TEL: (705) 324-6482
FAX: (705) 324-6482
TELEX: 06-962802

CAE SURE-TRAK SHARP CHAIN LOG PROCESSING SYSTEM



CAE Small Log Processing System showing 5 ft. Log Twin Bandmill, Overhead Spring Hold Down and Sure-Trak Sharp Chain.

The CAE Sure-Trak Sharp Chain Spring Hold-Down System for processing small logs with crook and sweep. Fills the gap between the expensive end dogging system, and the standard conventional sharp chain system.

Operational Specifications

The guided spring hold-down is a continuous chain that runs synchronously with the Sure-Trak Sharp Chain. Attached to this top chain, at two feet increments, are leaf springs that are shaped to give downward pressure on the log. The log is held between the springs and the sharp chain, so that no sideways movement is allowed as the log feeds. The spring height is varied automatically for successive log diameters. Automatic log gapping, ensures spring contact over a wide range of diameters and tapers.

The scanner is located within the Spring Hold-Down and scans only after the log is securely held, ensuring accurate scanning.

The system is designed to operate with 5 ft. and 6 ft. twin or quad bands, with or without reducer heads.

Particular and Mechanical Specifications

Log Diameters, cm (in)	10.2 (4) min., 71 (28) max.
Feed Speed, fpm	0 - 300
Piece Count	up to 12
Bandsaws	5 ft. & 6 ft. column
PH 700 Canters	close coupled
No. knives	3 or 6
Chip Length, cm (in)	1.6 - 2.5 (5/8 - 1)
Max. chip depth, cm (in)	15.2 (6)
Centre Cant, cm (in)	15.8 (3 5/8) min. 40.6 (16) max.
Side Boards, cm (in)	1.9 (3/4) min. 20.3 (8) max.
Offset, cm (in)	2.5 (1)
Total kW (hp) incl. Canter	5 ft. twin - 447 (600) 5 ft. quad - 634 (850) 6 ft. twin - 485 (650) 6 ft. quad - 671 (900)

MANUFACTURER:

CAE MACHINERY LTD.

3550 Lougheed Hwy.
Vancouver, B.C.
V5M 2A3
TEL: (604) 299-3431
FAX: (604) 299-1310
TELEX: 04-53498

CANMEC AUTO FEED TABLE

Canmec Auto Feed Table

Canmec designs and manufactures machinery for the pulpmill and sawmill industries. Canmec manufactures a line of log, lumber and chip handling equipment.

General Specifications

The Company custom manufactures wood machinery to meet particular needs of the pulp and sawmills. The equipment can thus meet the specific requirements of all types of wood based manufacturing facilities.

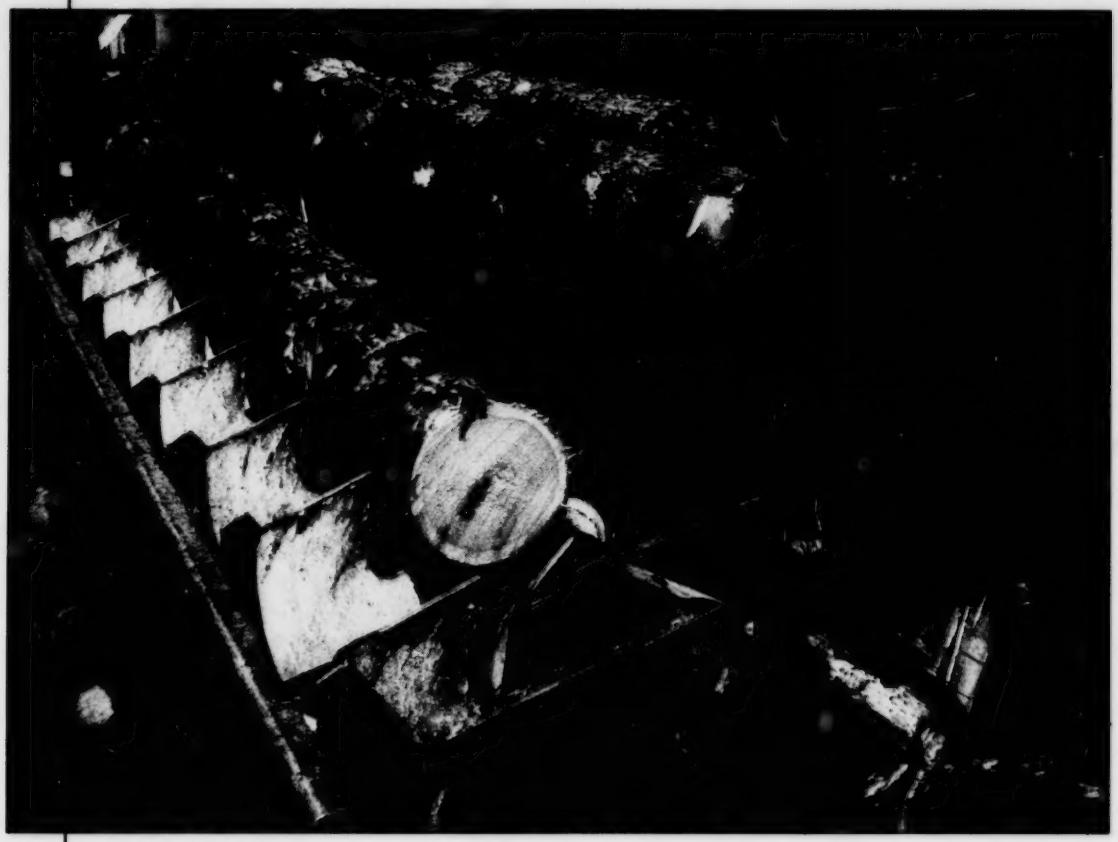
The Engineering Department is prepared to discuss the needs of the potential buyers, and design the system that best meets their requirements.

MANUFACTURER:

CANMEC INC.

1750 La Grande
Chicoutimi, Que.
G7H 5B3
TEL: (418) 543-6161
FAX: (418) 543-5564

EXCO SINGLE LOG FEEDER



Exco Single Log Feeder, a simple, rugged, effective low maintenance unit.

Exco Industries product line consists of log handling, lumber handling, planing/finishing machinery. The Company also builds jointly with Locomo of Finland, the Exco-Locomo cone felling saw.

All sawmill equipment is custom built to customers specifications, therefore dimensions can vary.

PRICE: Varies from approx. $7,000. (smallest) to $30,000. (largest), F.O.B. 100 Mile House, B.C., 1989.

Particular Specifications

Height: 54.6 cm (21 1/2 in) to 105.4 cm (41 1/2 in) and up (biggest)
Overall Length: 2.4 m (8 ft) to 18.3 m (60 ft)
Maximum Width: 1.2 m (4 ft) to 2.7 m (9 ft)
Total Weight: 454 kg (1 000 lb) up to over 9072 kg (20 000 lb)

Mechanical Specifications

Powered by hydraulic or pneumatic cylinder(s)
Operating speeds: up to 35 logs per minute with suitable controls.

Operational Specifications

An effective unit which feeds logs simply onto any belt or chainway. Particularly useful in multiple-bin sort systems, but can be used at any location where consistent, reliable log feeding is required. May be supplied in conjunction with an unscrambler.

Available as standard for log diameters 3 to 12 in., 4 to 16 in., 5 to 22 in., 6 to 42 in., 8 to 32 in., and 8 to 60 in.

Other sizes can also be supplied to suit particular applications.

MANUFACTURER:

EXCO INDUSTRIES LTD.

P.O. Box 790
100 Mile House, B.C.
V0K 2E0
TEL: (604) 395-4044
FAX: (604) 395-3389

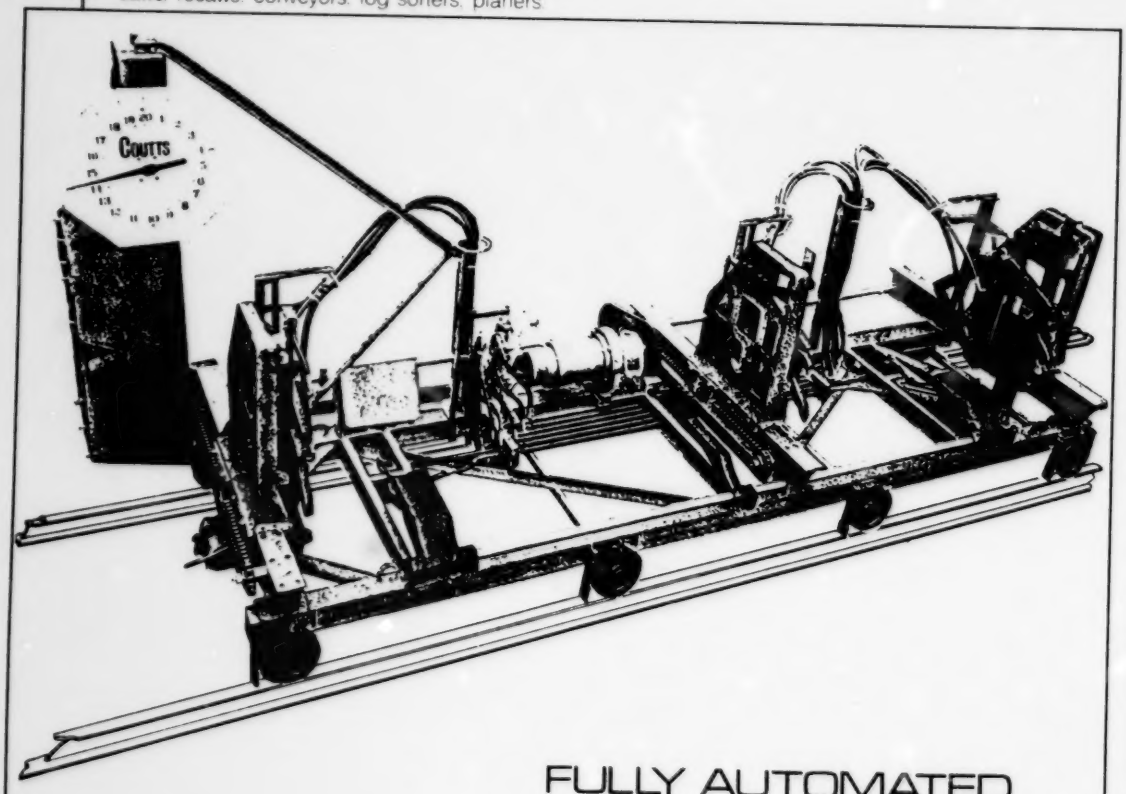
LOG BREAKDOWN EQUIPMENT AND SERVICES

Log Carriages
Log Carriage Drives
Bandmills
Circular Mills
Chipper/Canters
Chipping Headrigs
Slasher/Optimizers
Long Log Waferizers
Log Sizers

ALMAC SAWMILL CARRIAGES

Air electric sawmill carriage (40 in). and hydraulic electric carriage (38 in).

The Company also manufactures feed works. log turners. live log-decks. heavy duty edgers. cut-off saws. resaws. conveyors. log sorters. planers.



FULLY AUTOMATED

Fully automated 102 cm (40 in) air-electric sawmill carriage, right or left hand operation.

Particular Specifications

Air-electric sawmill carriage	
Axles. cm (in)	4.27 (1 11/16)
Wheels	4 steel V & 4 flat cast alloy
Headblocks	3 all steel construction
Bunks. cm (in)	20 (8) high
Setshaft. cm (in)	4.27 (1 11/16)
Mast Housing. cm (in)	61 (24) dial indicator
Shipping weight. kg (lb)	1588 - 1814 (3500 - 4000)

Mechanical Specifications

Air requirements. cm^3/sec @ $gms./cm^2$ (fm @ psi)	9.439 - 14.158 (20-30) @ 5624-7031 (80-100)
Power requirements: volts	3 phase AC 220 or 440
Setworks options: kW (hp)	1.1 or 2.2 (1 1/2 or 3)
Auxiliary equipment required	Pantograph arm Spring line Electrical main panel Sawyer's console Sawyer's handles

Operational Specifications

In the air-electric carriage. the sawyer controls the feed works. log stop and loader. log turner. automatic tail sawyer. live log-deck. and all carriage functions. Designed for use with a one man head rig. combining maximum efficiency with a strong. lightweight unit which can be handled by a medium sized feed works.

The automatic setworks incorporates a high torque 220/440 volt motor with helical gear reducer and a motor mounted magnetic disc brake which has been specially modified to provide greater accuracy. Normally supplied with 4 settings. permitting a corresponding choice of board or cant thickness.

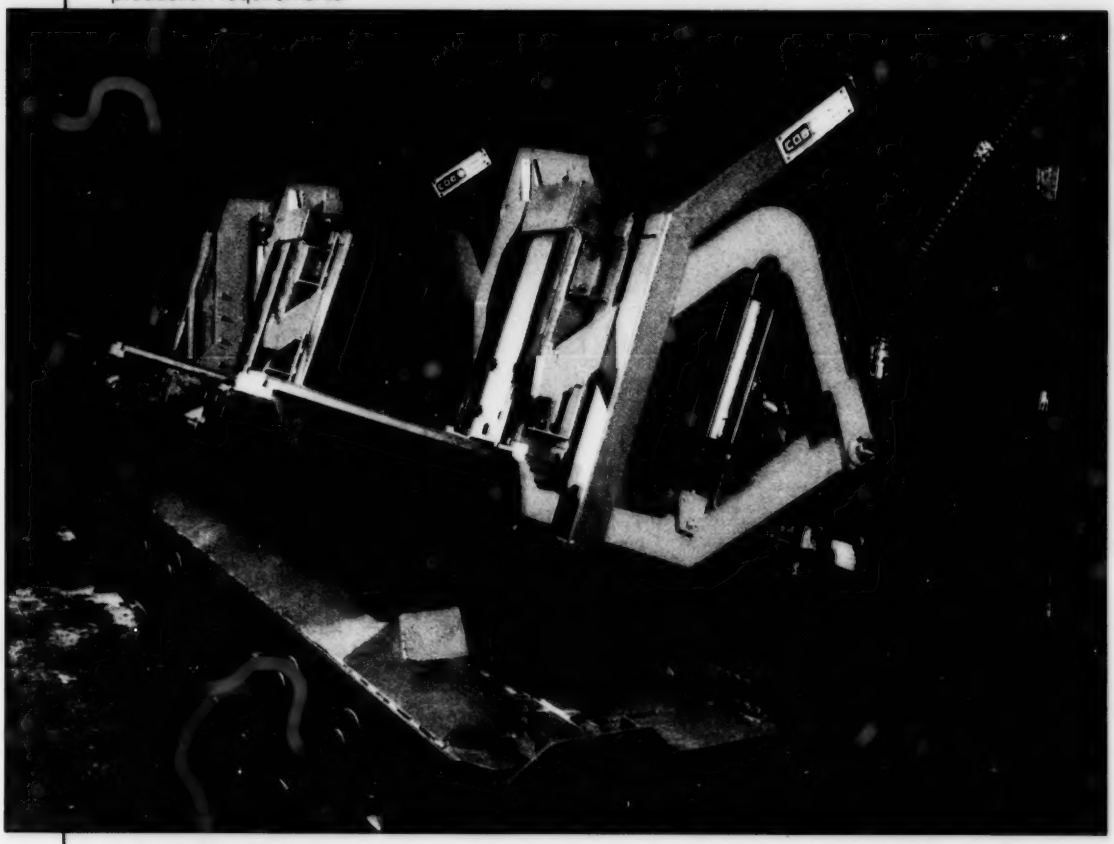
In the hydraulic electric carriage. the required auxiliary hydraulic power unit consists of a 77 L (17 I. gal.) steel tank. pump. relief valve and external suction filter. May be V-belt driven from saw-arbor. or any other line shaft. or by an electric motor (5.6 kW or 7 1/2 hp). An electric console is also required when pre-set automatic setworks are incorporated.

MANUFACTURER:

ALMAC MACHINE WORKS LTD.

9539 - 56 Ave.
Edmonton, Alta.
T6E 0B2
TEL: (403) 434-3402
FAX: (403) 437-3507

CAE manufactures various models and setting types of carriages to satisfy varying needs. There are large, medium and small log mills, and each carriage application varies depending on the size of logs and production requirements.



CAE 2454 Slant Hydraulic Carriage. The strong fabricated steel frame gives solid support to head and knee blocks. Also note the two wheel and axle assemblies, for solid support.

Particular Specifications

Carriage Opening mm	(in)	Models Series 1000	2000	3000
750	(30)	1030		
900	(36)	1036		
1060	(42)	1042	2042	
1200	(48)		2048	
1370	(54)		2054	3054
1500	(60)			3060
1800	(72)			3072
Max. Log mm Diameter (in)		1200 (48)	1500 (60)	2120 (84)
Approx. Weight 3-Bunk kg Carriage (lb)		6 300 (14 000)	11 300 (25 000)	16 300 (36 000)

Mechanical Specifications

Each series and size carriage is available with: Hydraulic set. Linear positioner for individual setting of each knee, chain set: Large diameter set shaft supported in split bearings, and precision roller chain for knee setting, ballscrew set, either rolled or ground threads available.

CAE provides complete system responsibility with any type of setworks ie. D.C. motor setworks for a chain set carriage, computerized setworks for best opening face. D.C. motor setworks for a ballscrew set carriage.

CAE has designed a modular log carriage. The available modules are:

- tong dog
- board dog
- Brownsville (turner)
- cant lever turner
- cant flipper

Operational Specifications

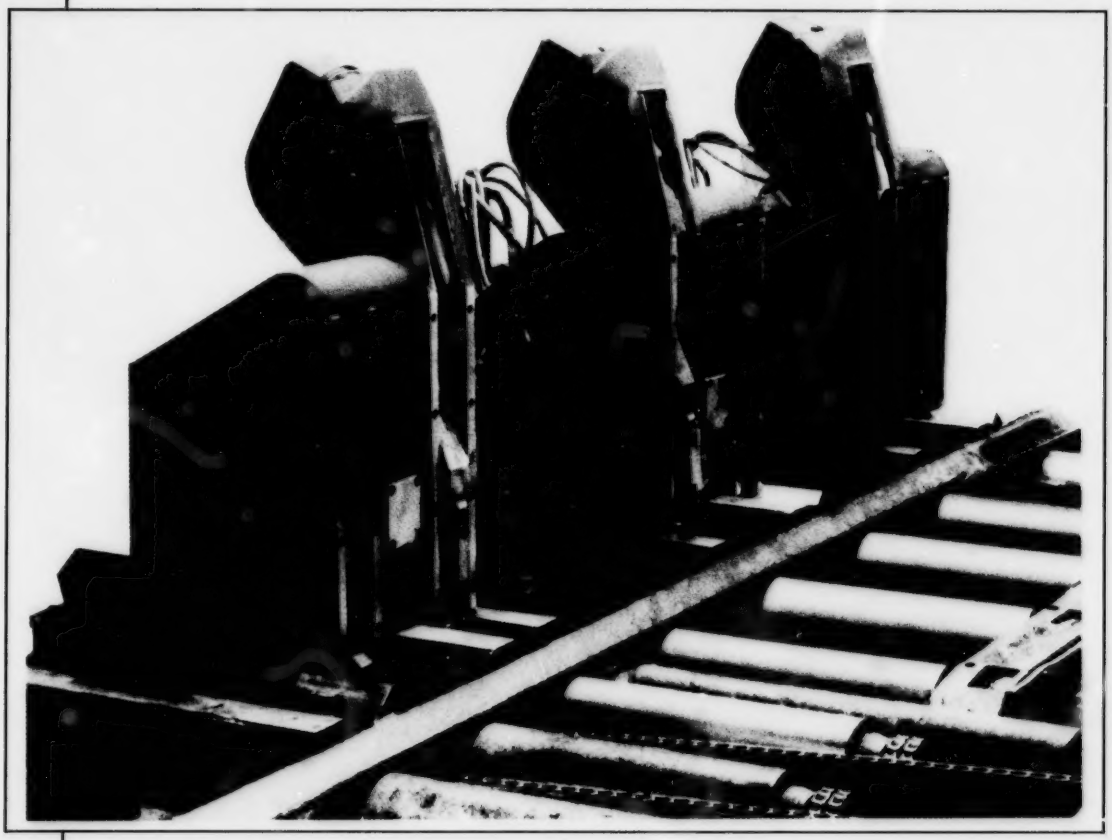
To achieve accuracy in sawing, the log's movement through the saw should be distributed by lateral and horizontal movements. The wide head and knee blocks assures that, the log (or cant) is firmly secured with the tong or board dogs. The double taper roller bearings on the wheels of the carriage, assure accurate position with minimum lateral movement.

MANUFACTURER:

CAE MACHINERY LTD.

3550 Lougheed Hwy.
Vancouver, B.C.
V5M 2A3
TEL: (604) 299-3431
FAX: (604) 299-1310
TELEX: 04-53498

CETEC LOG CARRIAGES



Cetec Log Carriages are designed to match log infeed sizes and provide high uptime performance with low maintenance.

Cetec Engineering is a complete sawmill equipment manufacturer. From research, through design and manufacture of bandmills, edgers, circular saws, log carriages and electronics.

Cetec Log Carriages up to 183 cm (72 in) are engineered for both hardwood and softwood.

Particular Specifications

High profile knee
Unattached bunk-knee
Full length knee slides with gib take-ups
High profile two-position tong-board dogs
Two bunk, three bunk, or four bunk machines
Designed for specific log lengths
Dual axles under each bunk
Low profile, heavy duty crane rail
Park-a-knee feature

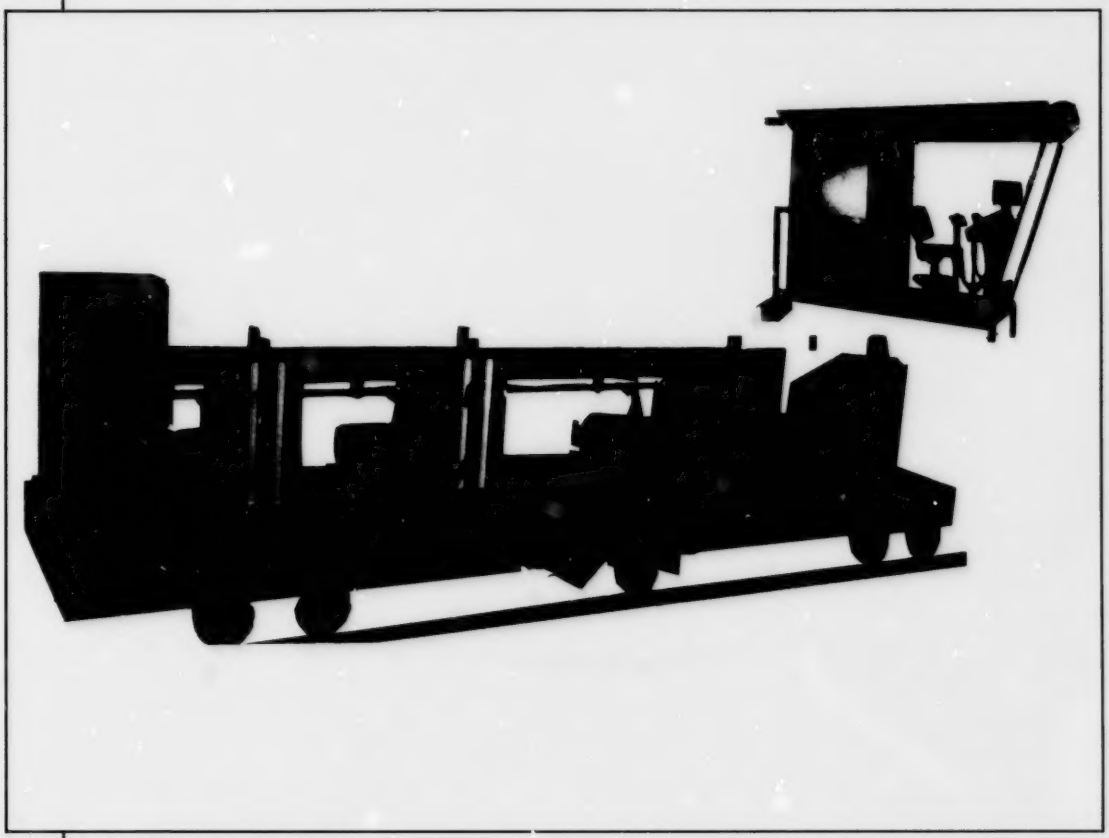
Cetec Log Carriages are part of a complete primary breakdown feed system. Complementary Cetec carriage drives, flat and "V" profile rails, as well as setworks and controls, can be added to maximize efficiency.

MANUFACTURER:

CETEC ENGINEERING COMPANY INC.

5595 Roy Street
Burnaby, B.C. V5B 3A5
TEL: (604) 291-7550

COMACT 42S AUTOMATIC ELECTRONIC CARRIAGE



The Comact 42S electronic carriage with a sawing accuracy within 0.002 inch; automatic computerized setwork, instant readout of head block positions on video monitor, choice of eight computerized sawing positions, and instant conversion of imperial to metric system.

Also available is the CO-T 42 automatic carriage with maximum head block base opening of 107 cm (42 in), with 3 or 4 head block bases spaced at 1.4 m (4.5), 2 m (6.5) and 1.4 m (4.5 ft), and an automatic setwork by electronic counter and pulse generator.

Operational Specifications

The electronic carriage gives the sawyer the decision aids to make optimum cuts. Automatic setwork by computer. Reduced maintenance with the elimination of mechanical devices: brakes, chains, sprockets, electric motor, worm gear.

Particular and Mechanical Specifications

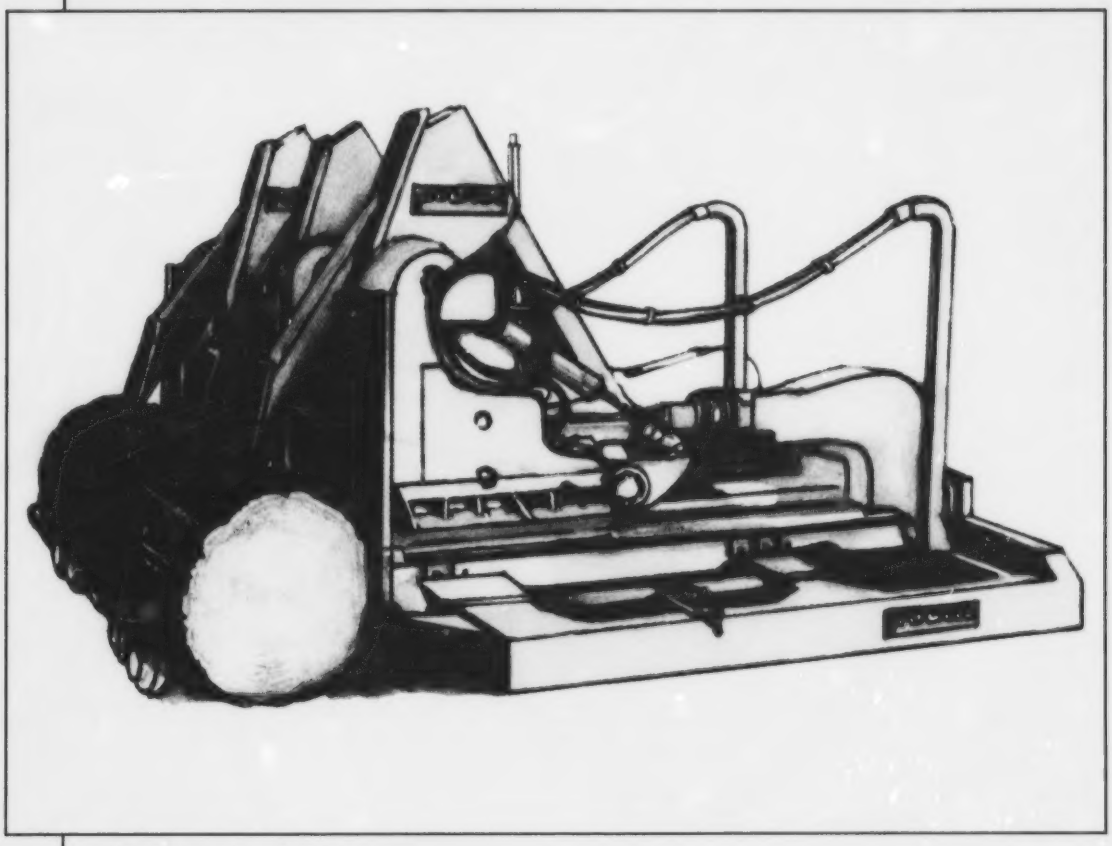
50.8 mm (2 in) square steel wheel axles, with 3 or 4 head blocks on carriage
Frame size, 2134 mm x 6007 mm (84 in x 236 1/2 in)
No. dogs per head, 3 dogs on each head block (2 upper & 1 lower)
Automatic dog pulling system
Pantograph, complete with support
20 output automatic lubrication system
53 flat & "V" rails
8 preset position automatic setwork, set by 8088-16 bits micro-processor
Electronic accuracy .001
Head blocks setting by servoactuator
Hydraulic unit, kW (hp) 14.9 kW (20 hp)
Console with 2 joysticks
Approximate weight, kg (lb) 4 763 (10 500)
Automatic lubrication on all major points directly from hydraulic unit of carriage

MANUFACTURER:

COMACT MACHINERIES INC.

4000, 40e rue
St-Georges ouest
Beauce-Sud, Que.
G5Y 5K6
TEL: (418) 228-8911
FAX: (418) 228-7466
TELEX: 05-833510

MAINLAND PRECISION CARRIAGE



Mainland Precision Carriage producing high quality sawn lumber.

Mainland Manufacturing are specialists in circular sawing. Mainland has concentrated on design and manufacture of cutting stations for the forest industry, specifically in the log breakdown and lumber manufacturing areas.

The Mainland Precision Carriage is designed to meet the production demands of high value, export quality, forest products.

Particular Specifications

Hydraulic linear positioners on each block complete with soft dogging Flat and V slide combination on the wide stance bunk providing extremely accurate settings and size repeatability
Heavy frame construction
Heavy round axles
Low centre of gravity
Available in 3 or 4 block models, slant or horizontal mode
Opening, cm (in) 106.7 (42) to 213.4 (84)

Operational Specifications

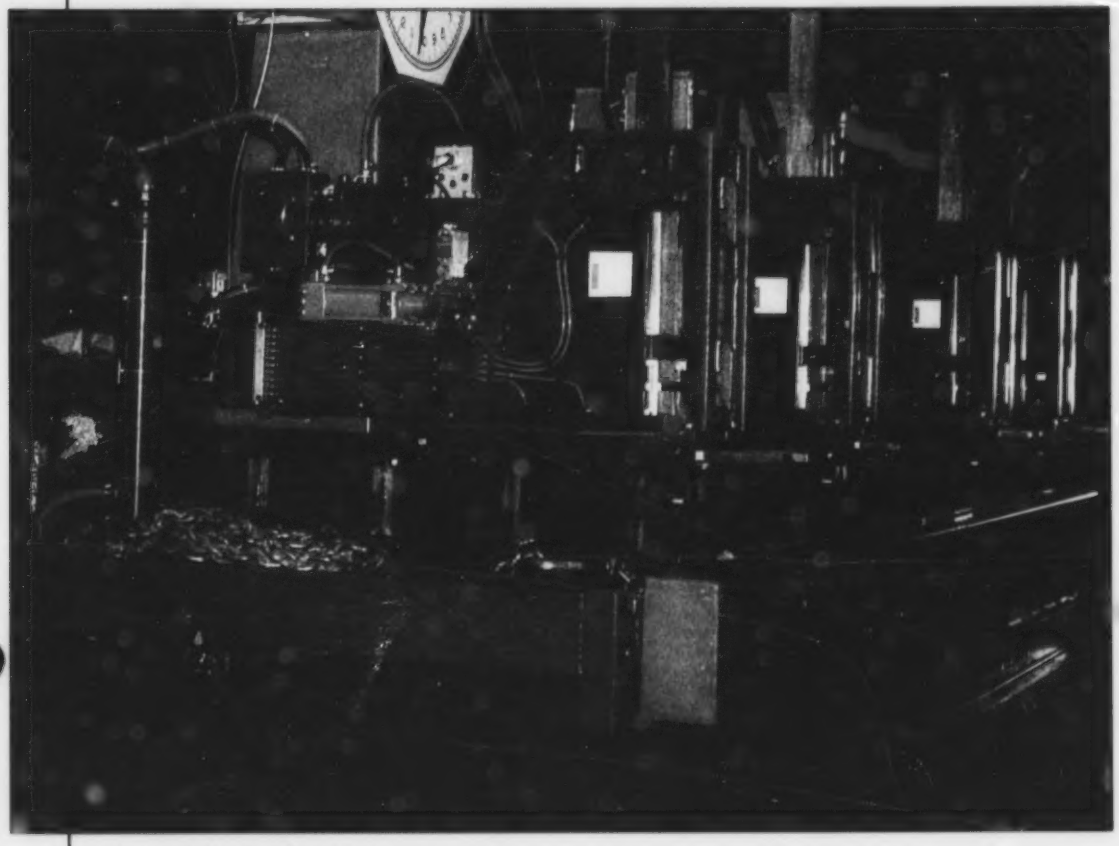
The heavy frame construction and heavy round axles combine to create the low center of gravity so necessary when processing larger logs.

MANUFACTURER:

MAINLAND MANUFACTURING

15100 River Road
Richmond, B.C.
V6V 1L5
TEL: (604) 273-1455
FAX: (604) 276-0051

T.S. AUTOMATIC CARRIAGE BOARDMASTER



Automatic Carriage Boardmaster

T.S. Manufacturing designs and manufactures machinery at their Lindsay, Ontario plant for a wide range of mills throughout the world. They do everything from a single machine modification or rebuilding, to turn key projects, including concept engineering, manufacturing and installation.

T.S. Manufacturing makes a full line of log handling and processing equipment, lumber handling and processing equipment, waste handling and processing equipment, complete sawmills, planing mills and wood room installations.

T.S. Automatic Carriages are available in 3, 4 or 5 block; light, medium or heavy duty type.

Particular and Mechanical Specifications

Some of the Boardmaster's features are:

- Standard head block opening 1067 mm (42 in)
- 203 mm (8 in) heavy duty bunks
- Automatic dog pulling system
- Infinite taper on all head blocks
- Nickel alloy cast wheels
- Shock absorbing pads under each bunk
- Cylinders mounted on rubber bushings
- Heavy-duty structural frame
- Safety limits on all functions
- Right or left hand construction

Choice of setworks cam, potentiometer, linear, backstand sets.

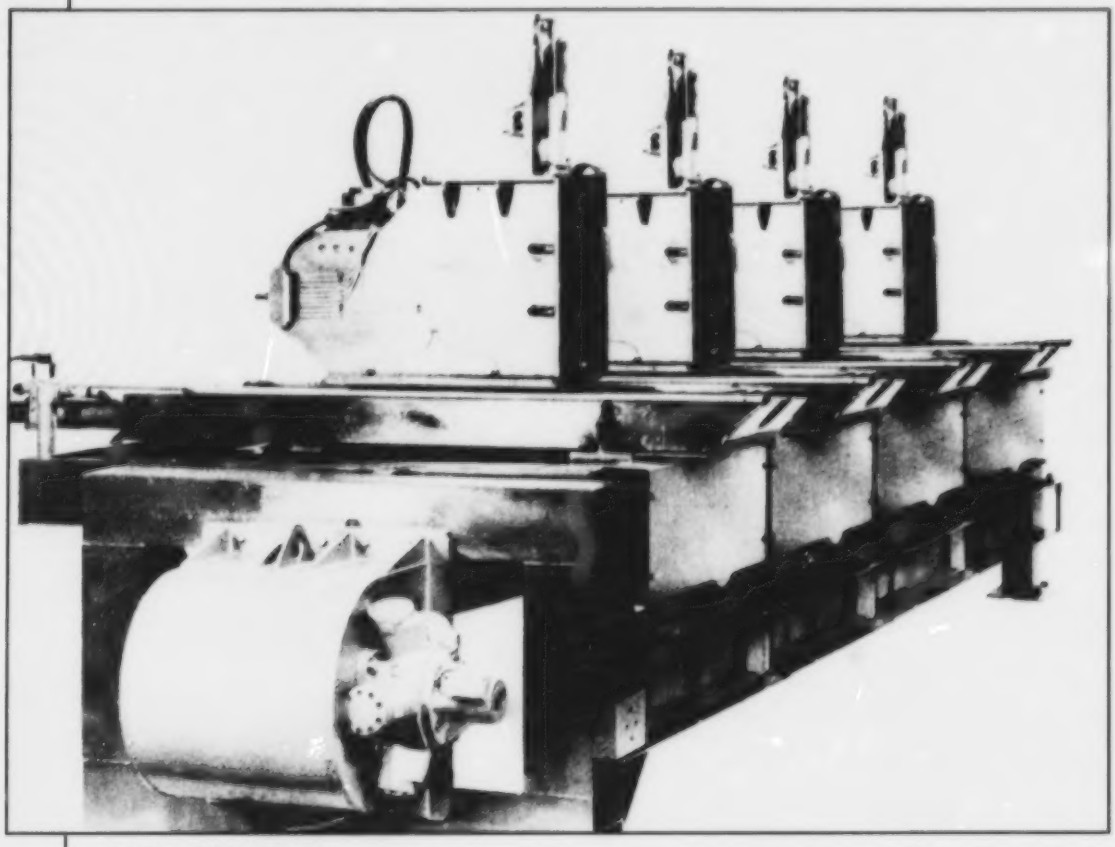
- Opening, cm (in) 91.4 (36) to 152.4 (60)
- Wheels, cm (in) 25.4 (10) to 43.2 (17)
- Drive 5, 7, 10, 15 single or 2 speed

MANUFACTURER:

T.S. MANUFACTURING COMPANY

P.O. Box 487
55 Needham Street
Lindsay, Ontario
K9V 4S5
TEL: (705) 324-6482
FAX: (705) 324-6482
TELEX: 06-962802

T.S. ACCU CHROME LINEAR CARRIAGE



T.S. Accu Chrome Linear Carriage maximizes the yield, increases productivity, ensures that the cut wood can be sold on the market.

T.S. Manufacturing makes a full line of log handling and processing equipment, lumber handling and processing equipment, waste handling and processing equipment, complete sawmills, planing mills and wood room installations.

T.S. Automatic Carriages and Accu Chrome Linear Carriages are available.

Particular and Mechanical Specifications

Linear positioning setworks
- Accuracy with, cm (in) 0.0051 (0.002)
- Decision making aids on console
- Infinite tapering with each knee
- Reduced maintenance with the elimination of chain, sprockets and other mechanical devices
- Scanning can be incorporated into the system
- T.S. Computer for matching sawing solutions to the market requirements

Accu Chrome Linear Carriage
- Heavy duty frame
- Two wheel and axle assemblies per knee/bunk
- Nickel alloy cast wheels
- Board dogs, two position for firm control of log or cant
- Wide bunks and knee faces
- Chromed slides, cm (in), two 11.4 (4 1/2) on each bunk
- Automatic lubrication (Optional)
- I.C.C. Gould Controller

Operational Specifications

Each sawmill is unique and may require various options due to density, length, diameter and species of wood, as well as varying market conditions, all of which may effect the options required on the carriage.

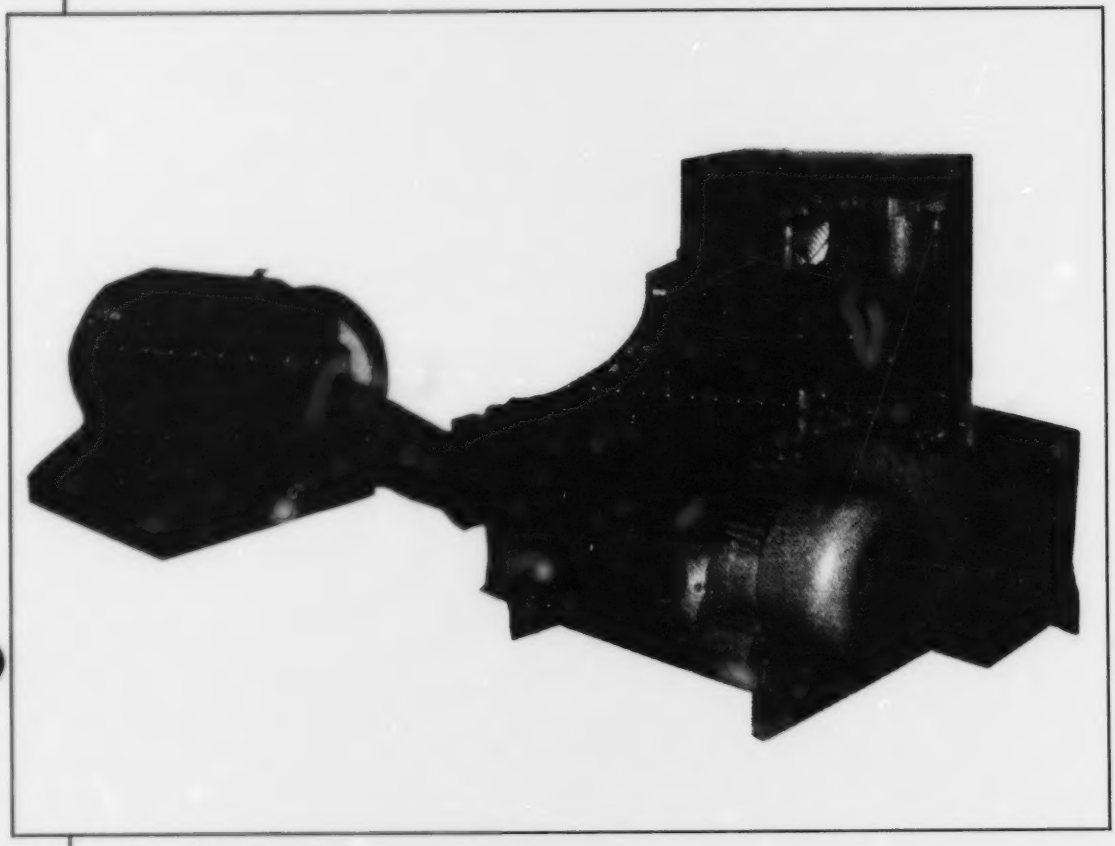
Some of the options T.S. offers are: Bijur auto lubrication system; Brownsville turner, Southern pine dogs; Modular cant flippers; Heavy clamp and hammer dogs.

MANUFACTURER:

T.S. MANUFACTURING COMPANY

P.O. Box 487
55 Needham Street
Lindsay, Ontario
K9V 4S5
TEL: (705) 324-6482
FAX: (705) 324-6482
TELEX: 06-962802

COMACT HYDROSTATIC DRIVE



Comact CO-T 3-H hydrostatic drive, sturdy construction, smooth operation.

Comact are specialists in the fabrication of sawmilling equipment.

Comact manufactures model CO-T-3H hydrostatic drives.

Particular Specifications

Outside dimensions, cm (in)
81.3 (32) x 127 (50) x 115.6 (45.5)
Feeder frame dimensions, cm (in)
91.4 (36) x 94.6 (37.25) x 91.4 (36)

Mechanical Specifications

Electric motor, kW (hp) 37.3 (50)
Reservoir, L (U.S. gal) 170 (45)
Hydraulic pump, L (U.S. gal)/min. 170 (45)
Hydraulic motor feed
Air cooler
Pulley diameter, cm (in) 78.7 (31)
Feed speed, m (ft)/min. 0 to 213 (700)

MANUFACTURER:

COMACT INC.

4000, 40e rue
St-Georges, Que.
G5Y 5K6
TEL: (418) 228-8911
FAX: (418) 228-7466
TELEX: 05-833510

SRC POWERED LOG CARRIAGE DRIVE

SCR Powered Log Carriage Drive, with filtered force-ventilated direct current steel mill motor, guarded high speed gear-type coupling, peak torque-matched speed reducer with extended low speed shaft to accommodate close-coupled ductile iron cable winding drum, outboard pedestal mounted spherical roller bearing, and chain sprocket driven maximum travel cam limit switch.

Softac is a diversified sales, engineering and manufacturing company. Each driver or control system is produced specifically to suit its application, and manufactured to high standards of quality and workmanship.

Operational Specifications

This high efficiency system consists of: a sawyer's master controller, power isolating transformer, control panel and S-curve amplifier, heavy duty winching unit.

Efficient Softac regenerative drives have the ability to return electrical energy to the AC power system, during deceleration.

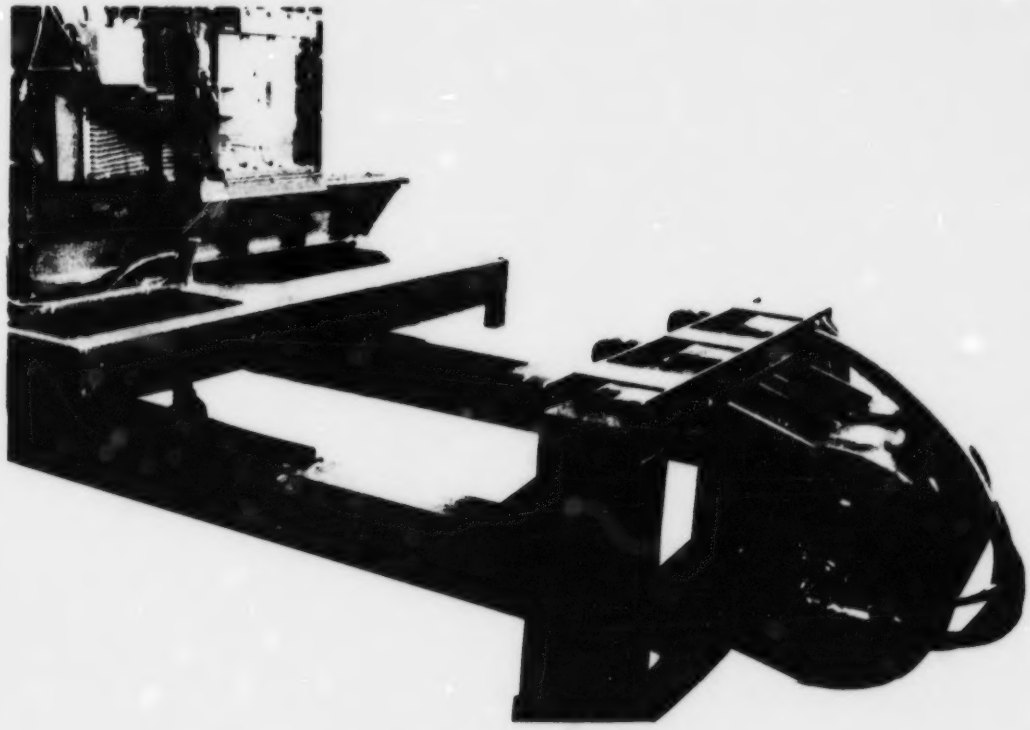
As an option, an industrial quality DC motor with power matched gear reducer can be substituted for the steel mill motor. This sacrifices some of the peak performance capability and life expectancy while offering lower capital cost.

MANUFACTURER:

LLOYD (SOFTAC) LTD.

3046 Westwood Street
Port Coquitlam, B.C.
V3C 3L7
TEL: (604) 464-8505
FAX: (604) 464-2242
TELEX: 04-353563

T.S. HYDRAULIC CARRIAGE DRIVE



T.S. Line Carriage Drive

T.S. Manufacturing designs and manufactures machinery at their Lindsay, Ontario plant for a wide range of mills throughout the world. They do everything from a single machine modification or rebuilding, to turnkey projects, including concept engineering, manufacturing and installation.

T.S. Manufacturing makes a full line of log handling and processing equipment, lumber handling and processing equipment, waste handling and processing equipment, complete sawmills, planing mills and wood room installations.

T.S. hydraulic carriage drive models 75 and 100.

Particular Specifications

Model	75	100
Overall dimensions		
hyd. pump pk.		
Length, cm (in)	152 (60)	158 (62)
Width, cm (in)	81.3 (32)	81.3 (32)
Height, cm (in)	165 (65)	165 (65)
hyd. motor drum pk.		
Length, cm (in)	63.5 (23)	63.5 (25)
Width, cm (in)	76 (30)	76 (30)
Height, cm (in)	78.7 (31)	78.7 (31)

Mechanical Specifications

Power, kW (hp) Mounts at either end of track, or under it 55.9 (75) TEFC @ 1800 rpm
74.6 (100) TEFC @ 1800 rpm
High quality pump and radial piston motor
Oil tank complete with filters, oil level gauge, and pressure gauge
Oil cooling radiator with fan and motor
Cable drum diam., cm (in) 45.7 (18) 61.0 (24)
Sawyer controls
Hydraulic hose steel plumbing lines and fittings
Options:
Electronic control for sawyer
High pressure filters
H.D. models 75 and 100

Operational Specifications

Two models to choose with full set of options available. High feed speeds reduce unit costs.

Engineering, sales and technical support are also available.

MANUFACTURER:

T.S. MANUFACTURING COMPANY

P.O. Box 487
55 Needham Street
Lindsay, Ontario
K9V 4S5
TEL: (705) 324-6482
FAX: (705) 324-6482
TELEX: 06-962802

Cetec is a complete sawmill equipment manufacturer. From research through design and manufacture of bandmills, edgers, circular saws, log carriages and sonics. Specialty in thin kerf bandsaw technology.

Five foot twin bandmill. Narrow profile allows close coupled, multi-bandmill installations. The large opening permits deeper cuts.

Particular Specifications

Saws:	
Gauge	17, 18 or 19
Length	10.3 m (33.67 ft)
Estimated weight-twin	10 886 kg (24 000)
Wheels:	
Diameter	1524 mm (60 in)
Face	229 mm (9 in) std.
Crown	0.127 mm (0.005 in)

Mechanical Specifications

Saws:	
Motor	125 HP-1800 RPM std.
Handling	Left, right, vertical, horizontal, tilt
Strain:	
Design saw velocity	6 096 m/min (20 000 fpm)
Std. saw velocity	3 048 m/min (10 000 fpm)

Options

Hydraulic moving upper saw guide, motor sheave drive motor, setworks brackets, oil mist saw lubrication, saw guide refacing machine.

Operational Specifications

CETEC's product line includes a full range of edgers incorporating the most advanced and accurate saw guiding systems in the industry as well as a full range of bandmills, from 1219mm (48 in) to 203 mm (8 in). As part of its complete systems approach, CETEC can provide all electrical/electronic controls and any type of feed system from the conventional to the most advanced.

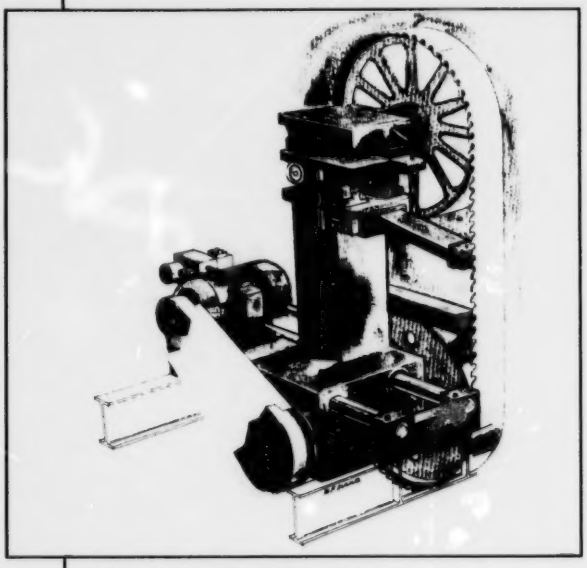
The bandmills' high performance is made possible by two unique features. An ultra-sensitive closed loop automatic strain control, which provides rapid response and superior oscillation dampening while maintaining constant strain. The other is an automatic microelectronics based saw tracking system which senses the position of the sawblade's gullet bottom and keeps it fixed and very close to the edge of the wheel by making continuous adjustments of wheel tilt. The result is higher stiffness of the blade edges during sawing. Together, these features provide unmatched quality and accuracy of cut lumber using thinner kerf; lumber measurements produce up to 40% improvement in sawing accuracy.

MANUFACTURER:

CETEC ENGINEERING COMPANY INC.

5595 Roy Street
Burnaby, B.C. V5B 3A5
TEL: (604) 291-7550

CAE HIGH STRAIN SINGLE & DOUBLE COLUMN SETTING BANDMILLS



CAE high strain, single column setting, bandmill designed for mechanical simplicity and high accuracy.

CAE manufactures various models and setting types of carriages to satisfy varying needs. There are large, medium and small log mills, and each carriage application varies depending on the size of logs and production requirements.

CAE Machinery's principal fields of expertise are in electronics, aviation, and ferrous and non-ferrous metal fabrication for a wide variety of industries. They are specialists capable of producing structural components, machinery components, hard surfacing and general fabrications.

Operational Specifications

CAE has developed a strain system for its bandmills with a high elasticity rubber spring component, resilient to both mechanical and chemical damage, which maintains stability over a wide range of temperature ranges. This strain source has no moving parts, and has improved response and damping properties due to lack of friction in the strain system. The system is complete with remote digital electronic strain read-out.

Particular and Mechanical Specifications

CAE high strain **single column setting bandmill** is available in 1.5 and 1.8 m (5 and 6 ft) wheel sizes.

Wheel size	**1.5 m (5 ft)**	**1.8 m (6 ft)**
Maximum Strain kg (lb)		
Operating	8 618 (19 000)	11 340 (25 000)
Design	10 886 (24 000)	13 608 (30 000)
Wheel Tape Length m (ft) Maximum	10.14 (33.325)	11.91 (39.08)
Minimum	9.68 (31.77)	11.46 (37.58)
Recommended Saw Gauge	16 or 17 ga	15 or 16 ga
Wheel Face Width mm (in)	178-203-229-254 (7-8-9-10)	229-254-279-305 (9-10-11-12)
Total Wheel Inertia (10" Wheel Face) kg m² (lb ft²)	413 (11 000)	921 (23 000)
Suggested Drive kW (hp)	112 @ 1000 rpm (150 @ 1200 rpm)	150 @ 1000 rpm (200 @ 1200 rpm)
Suggested Feed Speed m/min (fpm)	0-122 (0-400)	0-122 (0-400)
Minimum Bearing B10 Life at Operating Strain	60,000 hr	30,000 hr

CAE high strain **double column bandmills** are available in headrig wheel sizes of 1.8, 2.1, 2.4 and 2.7 m (6, 7, 8 and 9 ft) with maximum possible throat size, and in 1.5 and 1.8 m (5 and 6 ft) wheel sizes for fixed and setting resaw applications.

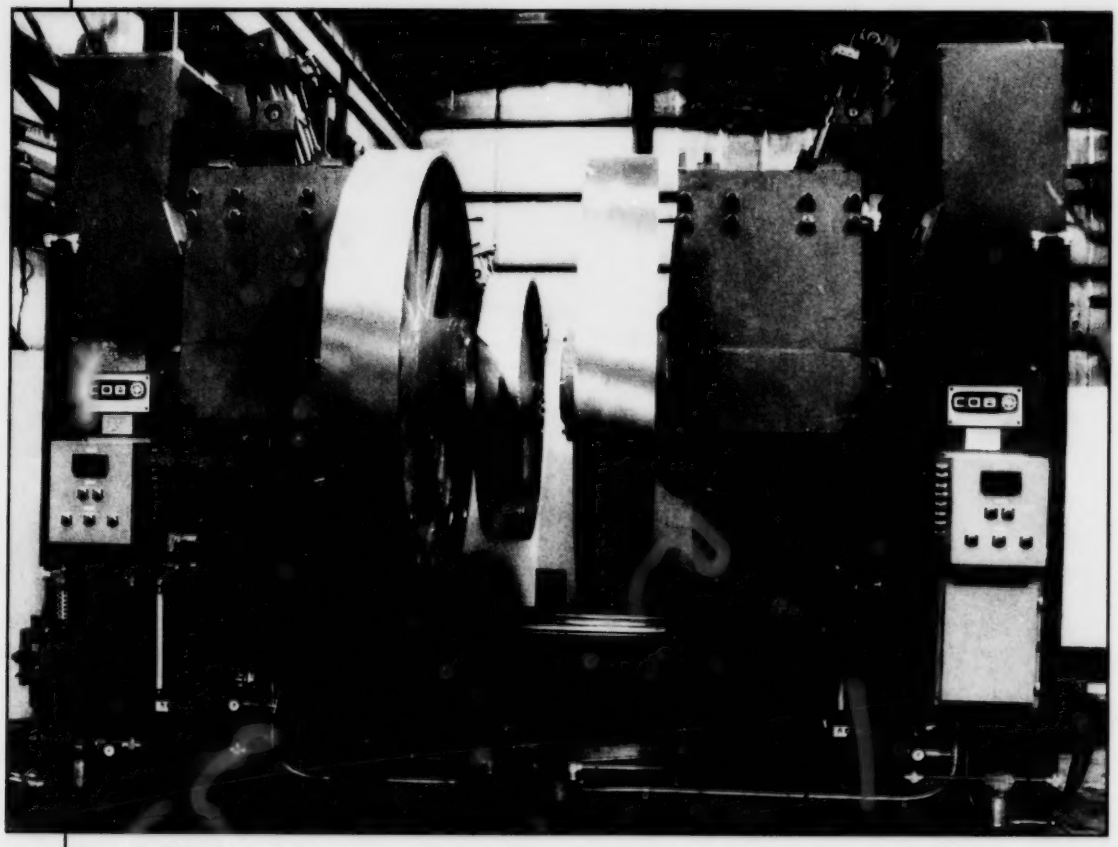
	1.8 m (6 ft)	**2.1 m (7 ft)**	**2.4 m (8 ft)**	**2.7 m (9 ft)**
Maximum Strain				
Operating kg (lb)	11 340 (25 000)	18 144 (40 000)	20 412 (45 000)	27 276 (60 000)
Design kg (lb)	14 515 (32 000)	20 412 (45 000)	27 276 (60 000)	36 288 (80 000)
Wheel Tape Length				
Maximum m (ft)	11.97 (39.27)	14.55 (47.74)	16.10 (52.82)	17.97 (58.97)
Minimum m (ft)	11.51 (37.77)	14.25 (45.74)	15.49 (52.82)	17.36 (56.97)
Recommended Saw Gauge	15 or 16 ga	14 or 15 ga	13 or 14 ga	12 or 13 ga
Wheel Face	229-305	356-381	330-356	305-330
Width mm (in)	(9-12)	(14-15)	(13-14)	(12-13)
Total Wheel Inertia, kg m² (lb ft²)	914 (24 300)	1 729 (46 000)	2 944 (78 300)	4 981 (132 500)

MANUFACTURER:

CAE MACHINERY LTD.

3550 Lougheed Hwy.
Vancouver, B.C.
V5M 2A3
TEL: (604) 299-3431
FAX: (604) 299-1310
TELEX: 04-53498

CAE HORIZONTAL BANDMILL SYSTEM



CAE 5 ft Tandem Horizontal Bandmill.

CAE are specialists in the manufacture of sawmilling machinery. They manufacture various models of bandmills: double column, single column, complete automated systems for single, twin and quad resaws, and horizontal bandmill systems.

CAE manufactures 5 ft and 6 ft single or twin horizontal bandmills in tandem or back-to-back configurations for fixed or setting applications.

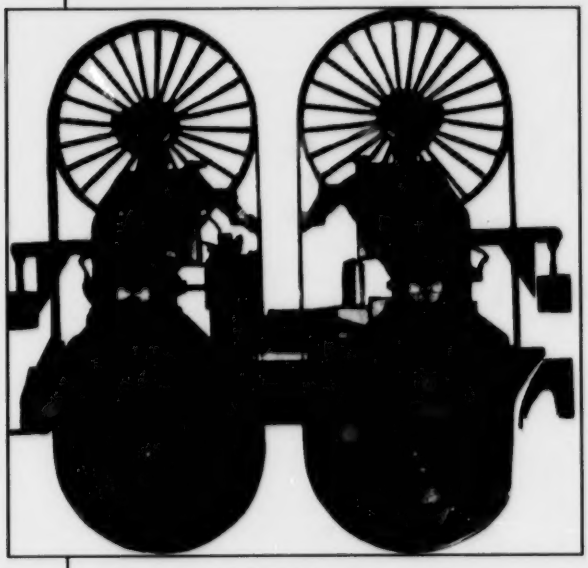
Particular and Mechanical Specifications

Model	1.5 m (5 ft)	1.8 m (6 ft)
Max. Strain, kg (lb)		
Operating	8 618 (19 000)	11 340 (25 000)
Design	10 886 (24 000)	13 600 (30 000)
Saw Gauge	16 or 17	15 or 16
Max. feed width, cm (in)	91 (36)	107 (42)
Feed height width, cm (in)	56 (22)	71 (28)
Suggested drive, kW (hp)	93-112 (125-150)	112-149 (150-200)
Feed speed, m (ft)/min	0-122 (0-400)	
Saw speed, m (ft)	1 829-3 124 (6 000-10 250)	
Setworks accuracy, cm (in)	± 0.0051 (0.002)	
Outfeed board separator	To Suit application	

MANUFACTURER:

CAE MACHINERY LTD.

3550 Lougheed Hwy.
Vancouver, B.C.
V5M 2A3
TEL: (604) 299-3431
FAX: (604) 299-1310
TELEX: 04-53498



Comact model CO-T 960 twin band saw, with automatic setwork, with push-button deck control, which can also be used as a headrig linear resaw.

Comact are specialists in manufacturing sawmill and machinery. In terms of log band saws, the Company manufactures: Quad Band Saw Model CO-T 960Q, Twin Band Saw Model CO-T 960, Log Band Saw Models CO-T 954 & 972N, and Horizontal Band Resaw Model CO-T 972HR.

Operational Specifications

Quad capacity for logs from 76 cm (3 in) to 81.3 cm (32 in).

The twin band has a minimum between saw blades of 4.4 cm (1 3/4 in) headrig; 1.9 cm (3/4 in) twin linear resaw; 6.4 cm (2 1/2 in) edger.

On the twin band saw, steel chain-type infeed system is with a 15 kW (20 hp) hydraulic drive for headrig. Also 12 horizontal and 2 vertical rolls infeed system, with linebar guide driven by 15 kW (20 hp) variable speed hydraulic system.

The horizontal band resaw capacity of cut is given as 30.5 cm (12 in) over the saw line, and 15.2 (6) under the saw line.

Particular Specifications

Model	960Q	960
Band saw	Quad	Twin
No. mobile saws	4	1 or 2
Wheel diam., cm (in)	152 (60)	152 (60)
Width of saws, cm (in)	23/25 (9/10)	23/25 (9/10)
Net weight, kg (lb)	17 464 (38 500)	7 849 (17 304)
Standard saw blade, cm (in)	16 ga x 23 (9) x 9.5 m (31.3 ft)	same

Mechanical Specifications

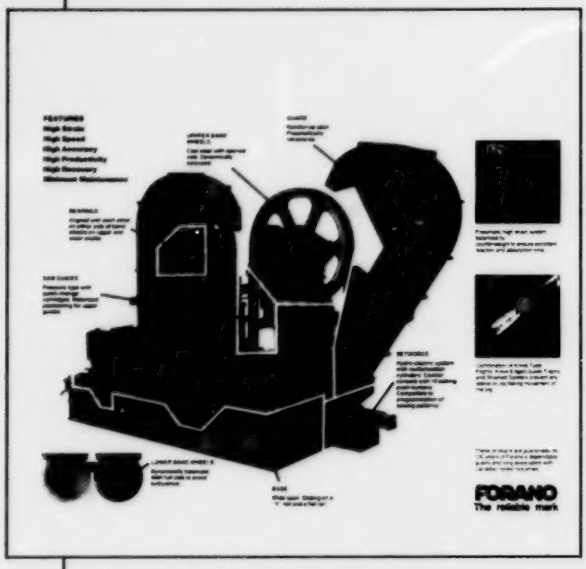
Power on each saw, kW (hp)	55.9 (75)	55.9 (75)
Auto lubrication system		same
Automatic setworks		Auto setworks with button deck control
Variable speed, m/min (fpm)	0 to 76 (250)	0 to 91 (300)
Options: Self centering turner rolls with axis chain		Stand. saw blade Infeed/ outfeed on rollers & conveyors. Auto. setwork on 2nd blade.

MANUFACTURER:

COMACT INC.

4000, 40e rue
St-Georges, Que.
G5Y 5K6
TEL: (418) 228-8911
FAX: (418) 228-7466
TELEX: 05-833510

FORANO LOG TWIN BAND SAWS



Forano Log Twin Band Saws feature: high strain, high speed, accuracy, productivity, high recovery and minimum maintenance.

Forano has been building quality sawmilling equipment for over 100 years.

Canadian made log debarkers are built by Forano and are available as the: 18 in. log debarker, 25 in. hydraulic debarker, 30 in. hydraulic debarker, and the 18 in. E. V. debarker.

Forano Twin Band Saws and Chipper Canters are known for dependability, and are also available in combination with the Forano Twinband or Quadband mills.

Particular Specifications

Band Wheels:	
diam.	1520 mm (60 in)
width	200 mm (8 in)
Saw Blades:	
length	9900 mm (32.5 in)
width	230 mm (9 in)
thickness	1.65 mm (16 ga)
Normal Operating Strain:	7260 kg (16 000 lb)
Maximum Allowable Strain:	9980 kg (22 000 lb)
Overall Dimensions:	
length	2600 mm (9 ft)
width	5200 mm (17 ft)
height	4300 mm (14 ft)
Shipping Volume:	40 m^3 (1400 ft^3)
Approx. Weight:	15 800 kg (35 000 lb)

Mechanical Specifications

Standard Saw Speed:	2460 m/min (8070 ft/min)
Feed Speed:	0 @ 110 m/min (0 @ 350 ft/min) variable and reversible
Band Wheel Motors:	2 - 74.6 kW (100 hp)
Feed Motor:	1 - 18.7 kW (25 hp)
Setwork Hydro-pack Motors:	1 - 2.2 kW (3 hp)
Feed:	Hydrostatic drive with variable speed control

Operational Specifications

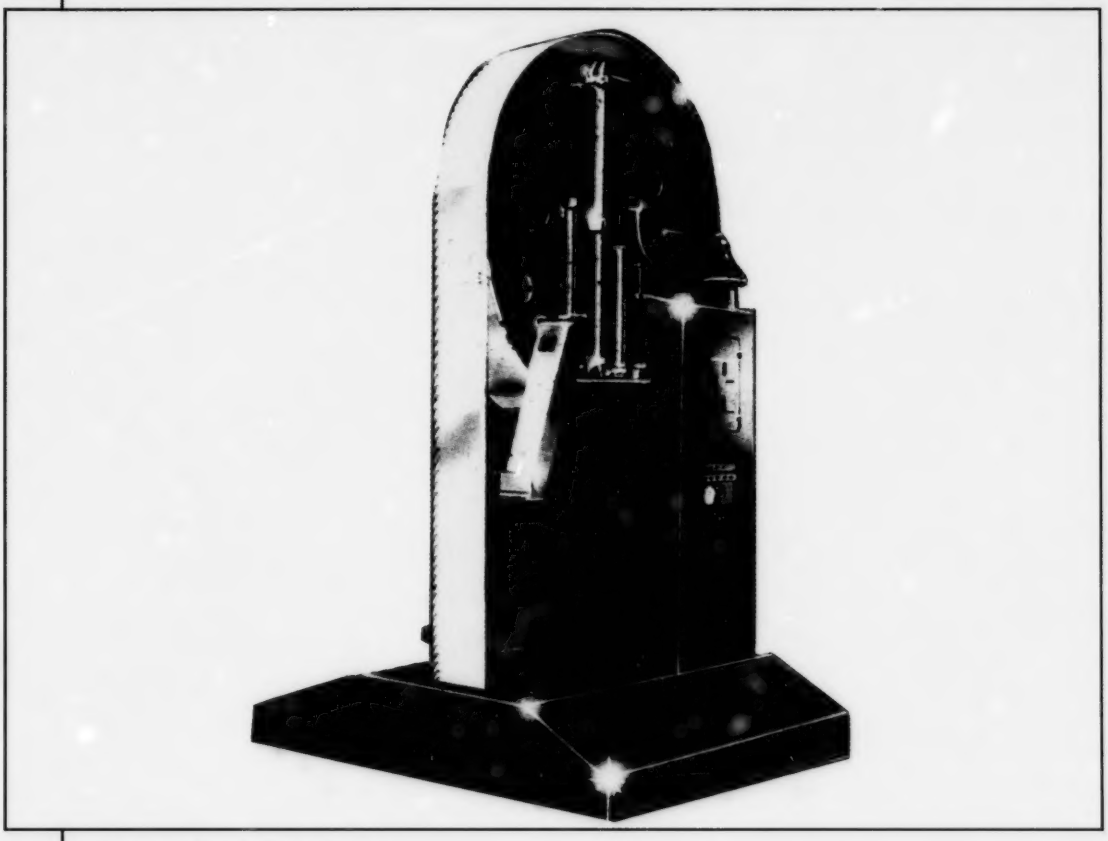
Maximum Log Size: 660 mm (26 in)
Saw guides are the pressure type with quick change cartridges.
Motorized positioning for upper guides.
Setworks: hydro-electric system with multichamber cylinders. Control console is with 10 setting push-buttons. Compatible to programming of sawing patterns.

MANUFACTURER:

FORANO LTD.

1600 St-Paul
Plessisville, Que.
G6L 2Y9
TEL: (819) 362-7361
FAX: (819) 362-6523
TELEX: 05-838585

KOCKUMS CANCAR AIR-FLUID STRAIN BANDMILLS



Kockums Cancar new computer-designed, high performance headrig bandmill.

Kockums Cancar is one of North America's largest high technology sawmill manufacturers. The Company provides a full line of sawmilling machinery and services, including log handling equipment such as debarkers, log turners and loaders, and feeders; log breakdown equipment consisting of log carriages, bandmills and chipper canters, main sawing equipment such as resaws, edgers, trim saws and optimizers.

Particular Specifications

Air-fluid strain system.
Long life fabricated steel wheels are standard, with cast ductile iron wheel optional.
Exclusive strain actuators, that apply strain and raise the wheel.
Fully adjustable top and bottom wheels, for easy alignment.
Top wheel has remote control, push-button tilt.
Interchangeable cartridge-style saw guides.
Self-contained, pre-piped, hydraulic power unit.

Operational Specifications

The new air-fluid strain system combines the best features of air strain and gas/hydraulic strain mechanisms. Air-fluid strain provides the optimum balance of response and damping times, essential to sawing accuracy.

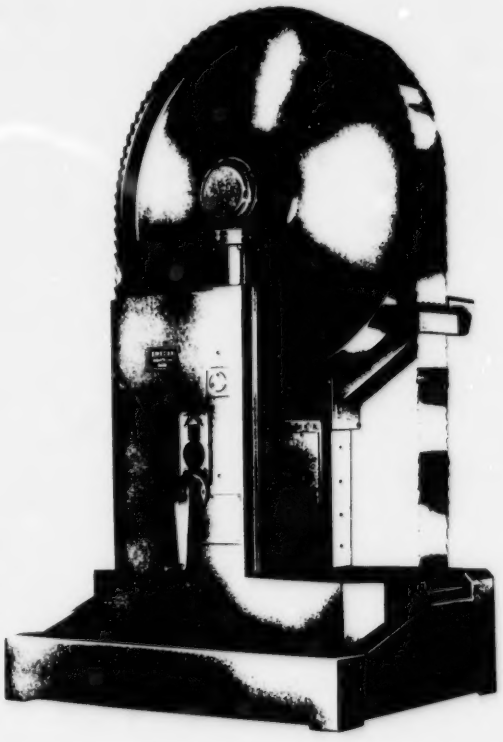
MANUFACTURER:

KOCKUMS CANCAR

P.O. Box 4200
Main Post Office
19433 96th Avenue
Surrey
Vancouver, B.C.
V6B 4K6
TEL: (604) 888-1515
TELEX: 043-65531
or
172 Merizzi Street
Montreal, Que.
H4T 1S4
TEL: (514) 731-6437
TELEX: 05-824567

SWECAN HIGH STRAIN BANDMILLS

Swecan line of products includes chipper canters with, 2, 3 or 4 chipper heads: combination chipper canter/twin or quad band saws; single, twin and quad band edgers: 18 in., 26 in., and 30 in. ring type debarkers/spare parts: wide band saw blades/bent chipper knives.



Swecan High Strain, Narrow Kerf Band Mills

Operational Specifications

The tensioning of the blade is effected electrically in a few seconds and indicated on the tensiometer, this ultrasensitive device automatically and instantly corrects any strain variations and ensures high-speed feed with accurate sawing.

A unique patented system permits tilting of both wheels symmetrically and simultaneously obtaining accurate positioning of the blade on the wheels regardless of blade width and reduces maintenance to a minimum.

Particular Specifications

Wheels - Diam	140 cm (55 in)	152 cm (60 in)	183 cm (72 in)
Face cm (in)	18.4 (7 1/4)	19.7 (7 3/4) - 22.2 (8 3/4)	24.8 (9 3/4) - 27.9 (11)
Saw Blade - Width cm (in)	20.3 (8)	22.9 (9) - 25.4 (10)	30.5 (12)
Length	8.7 (28.5)	9.4 (31)	11.7 (38.5)
Gauge	17	16	15 - 16

Machine made right or left hand, for single or double cut.

Mechanical Specifications

Horse Power kW (hp) @ 1800 rpm	44.7 (60)	55.9 (75) - 74.5 (100)	55.9 (75) - 93.1 (125)

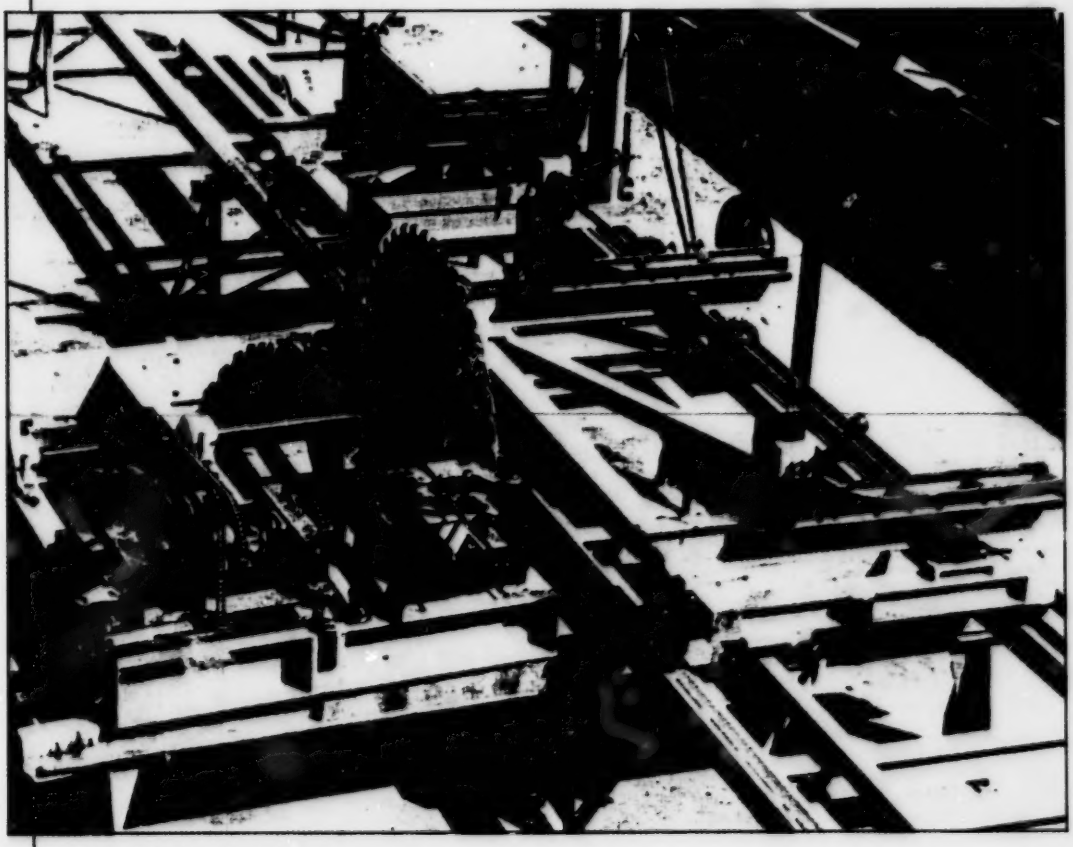
High Strain (up to five times normal)
Double column support of top wheels
Dynamically and statically balanced wheels
Pressure saw guides with motorized top guide with control

MANUFACTURER:

SWECAN INTERNATIONAL LTD.

Lanoraie, Que.
J0K 1E0
TEL: (514) 887-2313
FAX: (514) 887-2174
TELEX: 05-25609

ALMAC MEDIUM DUTY SAWMILL



Almac Medium Duty Sawmill

Almac manufactures: carriages, edgers, scrag mills, cut-off saws, resaws, trimsaws, log turners, transfers and conveyors, log sorters, sawtooth grinders, planers, feedtables, saw collars, burner bearings, and cutter heads.

Particular Specifications

Saw diam., cm (in)	152 (60)
Husk: length x width m (ft)	2.1 x 1.1 (7 x 3.6)
Feedworks: clutch type cm (in)	35.6 (14)
Track: length x width m (ft)	14.6 (48) x 1.3 (4.25)
Carriage: length x width m (ft)	4.6 (15) x 1.1 (3.67)
Weight, kg (lb) compl. with husk, car. & track	2268 (5000)

Mechanical Specifications

Power requirements (incl. acces.)	up to 149 kW (200 hp)
Clutch type feedworks cm (in) Hydraulic type avail. (opt)	36 (14) or 46 (18) (opt.) centre disc

Operational Specifications

Capacity with edger and accessory equipment, (per 8-hour shift) m^3 (M FBM)	59 (25) to 70.8 (30)
Application for logs ranging up to, number /m^3 (MFBM)	5 (12) to 8 (18)

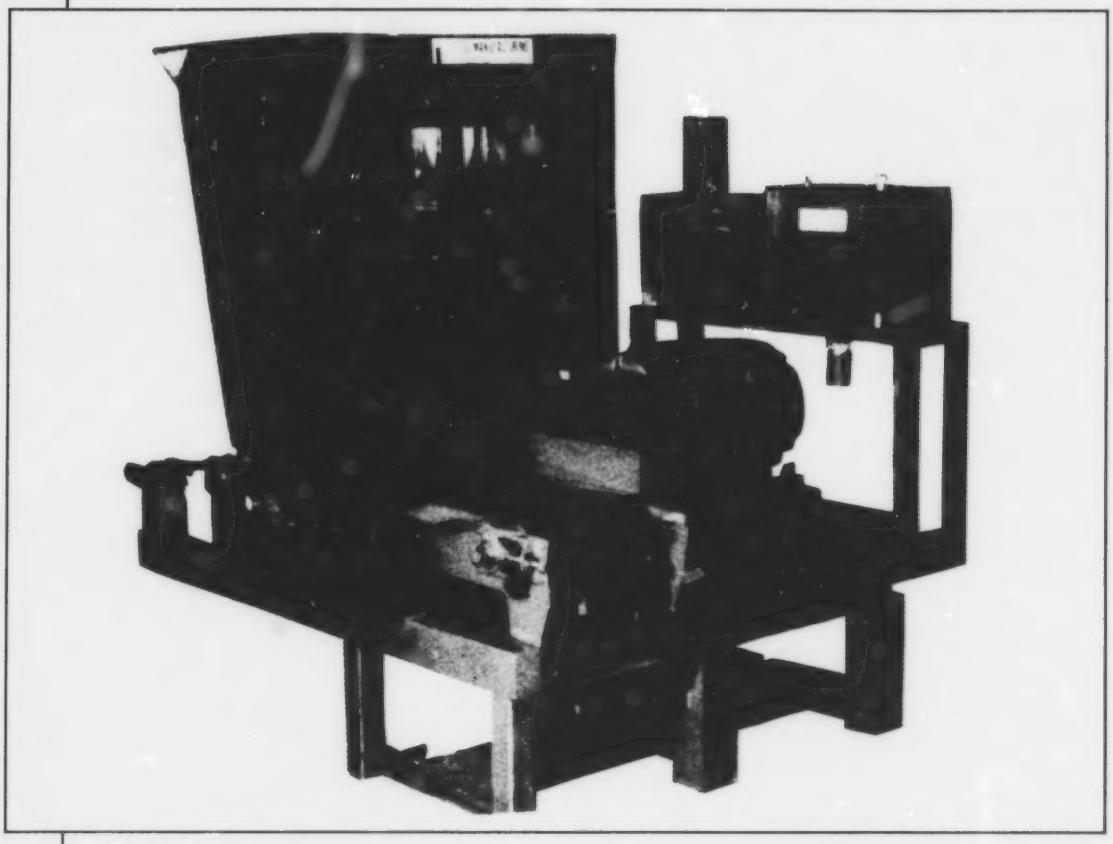
Electric setworks are available optionally in choice of simple jog set, or complete pre-set systems to speed production and ensure more accurate milled lumber.

In addition, this medium duty sawmill features ball bearing construction, wide choice of optional features, belt or hydraulic feedworks. A 4 x 36 edger is also optional, with single infeed/single outfeed, single infeed/double outfeed, and double infeed/double outfeed.

MANUFACTURER:

ALMAC MACHINE WORKS LTD.

9539 - 56 Ave.
Edmonton, Alta.
T6E 0B2
TEL: (403) 434-3402
FAX: (403) 437-3507



Shown is the TS Kerf Control Saw Husk including husk mounted feedworks.

T.S. Manufacturing designs and manufactures machinery at their Lindsay, Ont. plant for a wide range of mills throughout the world. They do everything from a single machine modification or rebuilding, to turnkey projects, including concept engineering, manufacturing and installation.

T.S. Manufacturing makes a full line of log handling and processing equipment, lumber handling and processing equipment, waste handling and processing equipment, complete sawmills, planing mills and wood room installations.

T.S. Kerf Control Saw Husk and T.S. Cab are a part of the full line of custom manufactured sawmill machinery.

Particular and Mechanical Specifications

Saw diameter, cm (in)	122 (48) to 152 (60)
Single arbor or top saw	
Sabre type splitter	
Live clearing belts	
Independent adjustable saw guides	
Options	
Top saw	
Operator cab	
Motor	
Cab: standard, cm (in)	122 (48) x 152 (60)
	122 (48) x 183 (72),
	198 (78) x 198 (78)
Large glassed-in viewing area	
Options:	
Insulation	
Safety glass	
Heat and/or air	
Lighting	
Seat	

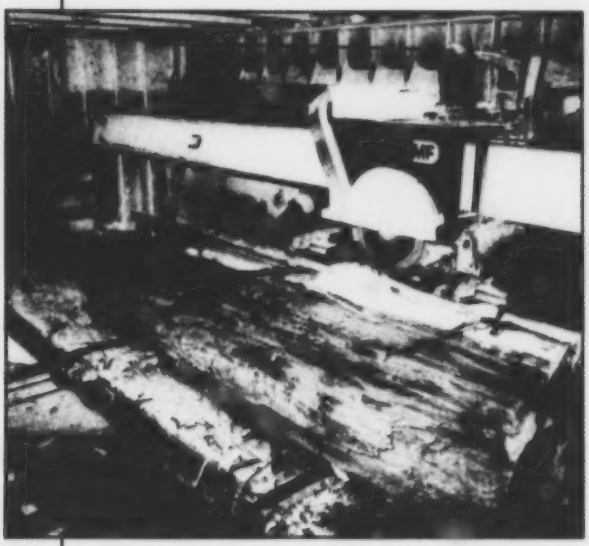
Operational Specifications

T.S. Kerf Control Saw Husk eliminates oversized and undersized cuts, which can be costly on many sawmill operations.

MANUFACTURER:

T.S. MANUFACTURING COMPANY

P.O. Box 487
55 Needham St.
Lindsay, Ont.
K9V 4S5
TEL: (705) 324-6482
FAX: (705) 324-6482
TELEX: 06-962802



MFD Large Log Mill sawing Western Red Cedar, especially useful in eliminating the oversize log problem.

Available in models LLM 720 and LLM 1000. MF Design and Manufacturing also builds scrag mills and circular resaws, and provides design and detail services.

Operational Specifications

The MFD Large Log Mill has been designed as an independent mill or for installation into an existing sawmill to eliminate the oversize log problem.

For smaller lumber mill operations, this machine is capable of handling the total production output. It cuts in one direction and discharges the sawn lumber on its return. The log platform handles logs of any size up to 3 m (10 ft) in diameter, and is raised or lowered by a single hydraulic cylinder. Hydraulic positioners load and align the log, then dog it in the required cutting position. The bottom slab can be repositioned for further cutting or discharged by transfer chains for further processing. A single operator is in complete control at all times, ensuring maximum safety conditions.

Particular Specifications

Model	LLM 720	LLM 1000
Max. Log Size m	1.8	3.0
Diameter (ft)	(6)	(10)
Length Std.	6.2 (20.5)	6.2 (20.5)
Opt.	7.5 (24.5)	7.5 (24.5)
Weight kg (lb)	15 876 (35 000)	24 948 (55 000)
Cut mm (in)	203 (8) x 305 (12)	305 (12) x 305 (12)
Head Saw dia. mm (in)	762 (30) inserted tooth (Carbide saw optional)	762 (30) inserted tooth Interchangeable
Edger Saw dia. mm (in)	610 (24) inserted tooth (Carbide saw optional)	762 (30) inserted tooth Interchangeable
Weight kg (lb)	5443 (12 000)	7711 (17 000)
Export m^3 (cu ft)	47 (1660)	65 (2300)

Crating
Cross feed preselect - (12 position setworks optional)
Vertical set, manual hydraulic. Standard. (Preselect optional)
Two only, log positioning chain. Standard. (Three chains required on 7.5 m (24.5 ft) machine)
One only, log dogging device. Standard.
LH or RH mills supplied.
Other sizes available.

Mechanical Specifications

Model	LLM 720	LLM 1000
Head Saw	60 hp TEFC 230/460 v motor	75 hp TEFC 230/460 v motor
Edger Saw	40 hp TEFC 230/460 v motor	75 hp TEFC 230/460 v motor
Hydraulics	7 1/2 hp TEFC 230/460 v motor	15 hp TEFC 230/460 v motor
Feed Speeds m/min (fpm)	0-61 (200)	0-61 (200)

MANUFACTURER:

MF DESIGN & MANUFACTURING LTD.

2160 Cliff Ave.
Burnaby, B.C.
V5A 2K8
TEL: (604) 888-1440
(604) 420-2471

Forano has been building quality sawmilling equipment for over 100 years.

Canadian made log debarkers are built by Forano and are available as the: 18 in. log debarker, 25 in. hydraulic debarker, 30 in. hydraulic debarker, and the 18 in. E. V. debarker.

Forano Twin Band Saws and Chipper Canters are known for dependability, and are also available in combination with the Forano Twinband or Quadband mills.

Particular Specifications

Canter

Chipping knives	6 per head
Finishing knives	6 per head
Option	Carbide saws to replace finishing knives
Head Openings	95 mm @ 510 mm (3 3/4 in @ 20 in)
Approx. weight	7700 kg (17000 lbs)

Band Saws

Saw wheel diam.	1520 mm (60 in)
Blades length	9900 mm (32 5 in)
Blades width	230 mm (9 in)
Blades thickness	1 65 mm (16 ga)
Saw guides	Quick-change cartridges
Saw openings	45 mm @ 460 mm (1 3/4 in @ 18 in) & one split position
Approx. weight	17200 kg (3800 lb) twinband 34500 kg (7600 lb) quadband
CANTER-TWINBAND CANTER-QUADBAND	
Shipping volume	57 m^3 (2000 ft^3) & 100 m^3 (3500 ft^3)

Mechanical Specifications

CANTER

Primary drive motor	111 9 kW (150 hp)
Feed rool motors	2 of 2 2 kW (3 hp)
Setworks motor	11.2 kW (15 hp)

BAND SAWS

Saw speed	2460 m/min. (8070 ft/min)
Max. strain	9070 kg (20000 lb) by counterweight 9980 kg (22000 lb) with pneumatic balancing
Primary motor	2 of 74 6 kW (100 hp) twinband 4 of 74.6 kW (100 hp) quadband
CANTER-TWINBAND CANTER-QUADBAND	
Feed speed 1 speed	84 m/min (275 ft/min)
2 speed	72 m/min (235 ft/min) canter and twin/quad 107 m/min (350 ft/min) canter only

Operational Specifications

CANTER

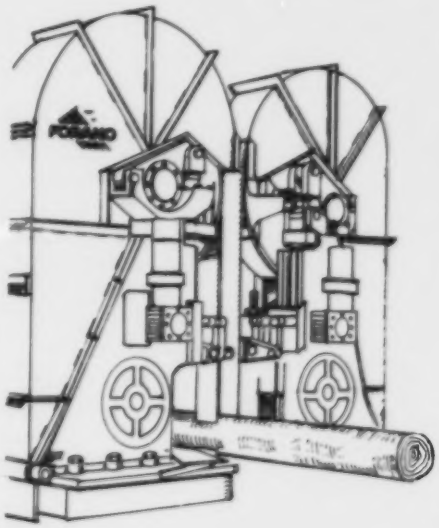
Max. reducing (or slabbing) capacity: 180 mm (7 in) per head — Total 360 mm (14 in)
Max. log diameter: 640 mm (25 in)

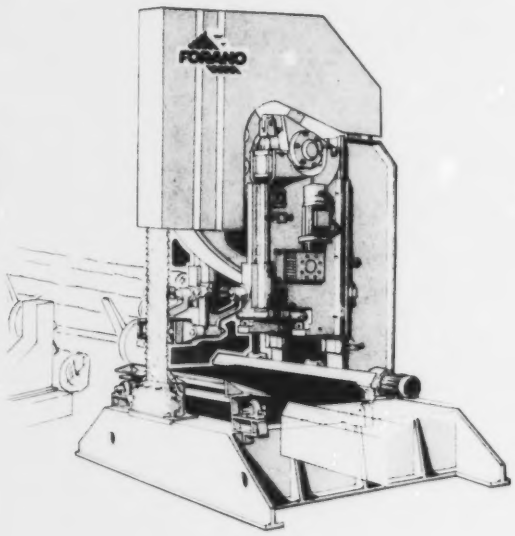
Canter is of heavy duty construction with chipping heads sliding on large diameter shafts. Equipped with double outfeed rolls and plate guide at discharge to eliminate bowing and twisting during processing.

TWINBAND/QUADBAND SAWS

Saw wheel diameter of 1520 mm (60 in) with 100 hp motors. Fitted with quick-change cartridge sawguides and high strain system by means of counterweight with optional pneumatic balancing. Cuts the cant in 3 pieces ready to be squared.

FORANO CANTER-TWINBAND/CANTER-QUADBAND





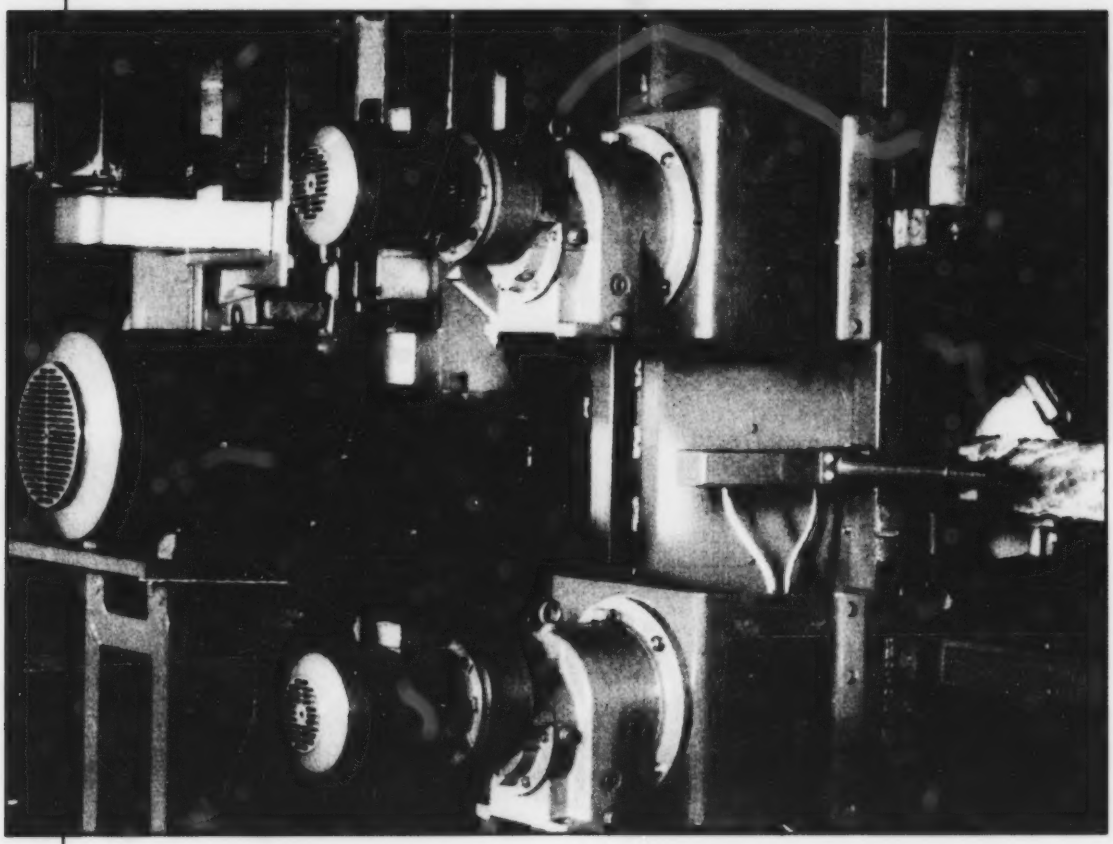
Forano Canter Twinband and Quadband features: modular construction permitting flexible lay-out, high productivity, with reduced labour.

MANUFACTURER:

FORANO LTD.

1600 St-Paul
Plessisville, Que.
G6L 2Y9
TEL: (819) 362-7361
FAX: (819) 362-6523
TELEX: 05-838585

SLYM250 SMALL LOG YIELD MAXIMIZER



In Eastern Canada where more than 50% of the timber has a diameter inferior to 20 cm (8 in.), the SLYM250 is a sawmill designed for processing very small logs profitably.

The SLYM250 is a sophisticated sawmill specifically designed for processing of small logs, turning out a higher percentage of 5.1 cm (21 in) lumber in a one pass operation.

Particular Specifications

Length m (ft)	3.8 (12 1/2)
Width m (ft)	Max. 2.8 (9.33) - Min. 2.5 (8.83)
Height, m (ft)	2.9 (9.5)
Total Length (incl. infeed table & conveyor) m (ft)	18.3 (60)
Rip-saw thickness, cm (in)	0.356 (0.140)

Mechanical Specifications

Production line power, kW (hp)	350 (469)
Four canter heads powered by a 55kW motor each	
Feed speed, m/min (fpm)	76.2 (250)
Potential Production, m^3 (MMBF)/shift	58 993 (25)

Operational Specifications

Barked timber is fed into the infeed wheels, and the self centering device; the machine guides the log through the three stages required, and comes out edged sawnwood at the rate of 250 fpm.

The infeed table rotates crooked logs automatically in the proper position. The SLYM250 offers accuracy in sawing ± 0.10 cm (0.040 inch) and automatic rotation of crocked logs with a maximum straightening effect or 7.6 cm (3 in) per 4.9 (16 feet).

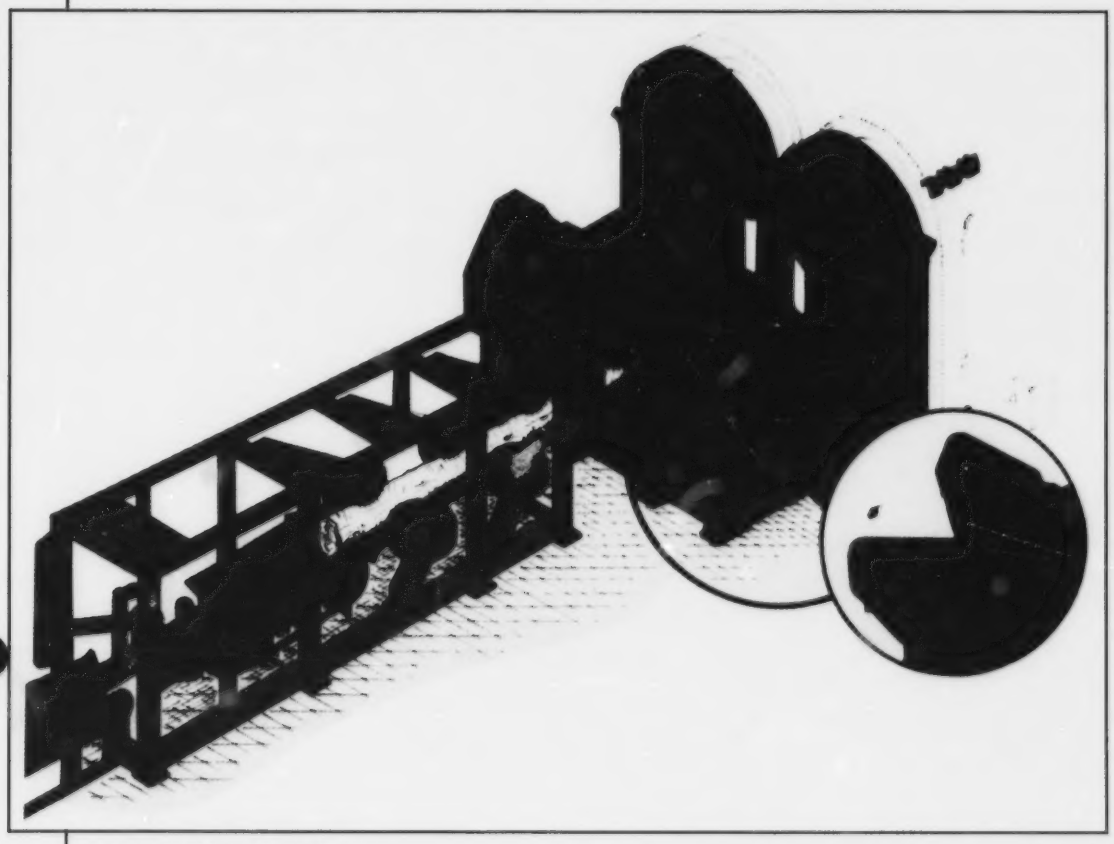
The sawmill only requires a labour force of 9 men.

MANUFACTURER:

URAKEN CANADA LTD.

559 Industrial Blvd.
St. Eustache, Que.
J7R 6C3
TEL: (514) 472-7272
FAX: (514) 472-7010

SWECAN CHIPPER CANTER/BAND MILL COMBINATIONS



Swecan Chipper Canter/Twin Band Combination with Sharp chain-type infeed.

Swecan line of products includes chipper canters with 2, 3 or 4 chipper heads; combination chipper canter/twin or quad band saws; canter and circular scrag combination; single, twin and quad band edgers; 18 in., 26 in. and 30 in. ring type debarkers/spare parts; wide band saw blades/bent chipper knives.

Also available are chipper canter/twin or quad band combination with sharp chain-type infeed. Swecan 3 sided chipper canter in Models SSCC 3 and SRCC 3, with adjustable bottom cut. Different models of canters are often close coupled to twin, quad band saws or circular gang edgers.

Particular Specifications

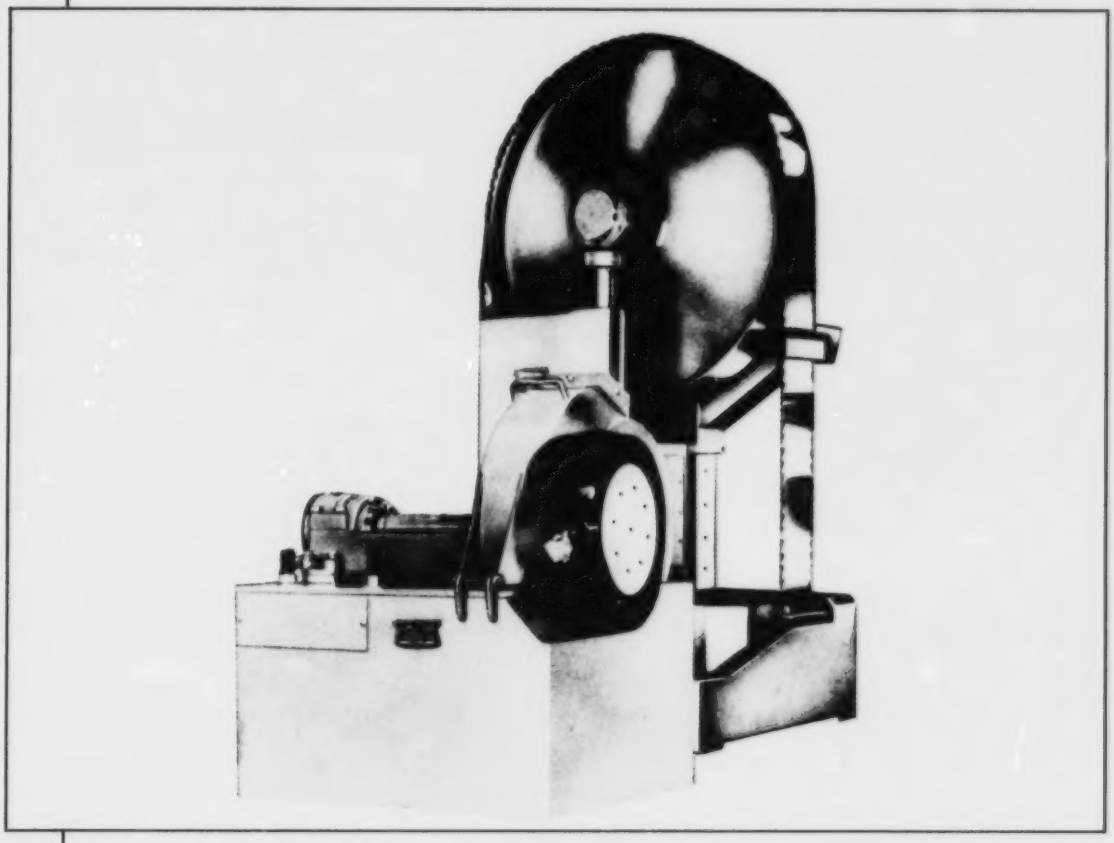
Scanner available for computer controlled settings
Log alignment and positive hold-down while in motion
Continuous feeding
High lumber recovery
Increased production rates
Available with saw inserts for finished surfaces

MANUFACTURER:

SWECAN INTERNATIONAL LTD.

Lanoraie, Que.
J0K 1E0
TEL: (514) 887-2313
FAX: (514) 887-2174
TELEX: 05-25609

SWECAN COMBINATION SLABBING CHIPPER/BANDMILL HEADRIGS



Swecan Combination Slabbing Chipper/Bandmill Headrig, model PL60 (shown) with 152.4 cm (60 in) diam. wheels for 25.4 cm (10 in) wide saw

Swecan line of products includes chipper canters with 2, 3 or 4 chipper heads; combination chipper canter/twin or quad band saws; single, twin and quad band edgers; 18 in., 26 in. and 30 in. ring type debarkers/spare parts; wide band saw blades/bent chipper knives.

Swecan Model SW34/PL60 Combination Slabbing Chipper/Bandmill Headrigs.

Particular Specifications

Slabbing Chipping Section

Carriage: One mobile carriage supporting chipper head, shaft & bearings housing assemblies, drive motor & guards.

Chipper Head: One cast steel head model SW34 with 4, 6 or 8 knife holders & knives (depending on feed speed requirements). Depth of cut 3 1/2 in. or 6 in according to application.

Mechanical Specifications

Slabbing Chipper Section

Drive Motor: One 111.8 to 186.3 kW (150 to 250 hp) depending on species and feed speed requirements.

Setworks: Electronic hydraulic setworks, 9 settings & retract for double cut application.

Bandmill Section

Drive Motor: Main motor 74.5 kW (100 hp) 1800 RPM.

Wheel Diam.: 152.4 cm (60 in) for 25.4 cm (10 in) wide saw.

Operational Specifications

Available are different models of slabbing chipper headrigs and bandmill headrigs combinations.

MANUFACTURER:

SWECAN INTERNATIONAL LTD.

Lanoraie, Que.
J0K 1E0
TEL: (514) 887-2313
FAX: (514) 887-2174
TELEX: 05-25609

The CO-T 48-3-5 Chipmaster chipper system with model 48, 3-knife chipper, chip screen model CS-60, blower system with 52 in. diam. and chip screen.

Top or bottom discharge, and horizontal or drop feed in model CO-T 48-60-75. Also available in model CO-T 48-3-5, chipmaster, or models CO-T 48-3-6, 48-4-7, 60-6-7, 60-6-8.

Particular Specifications

Model	C-48	C-60	C-75
Height cm (in)	145 (57)	178 (70)	220 (86.5)
Width cm (in)	122 (48)	152 (60)	193 (76)
Thickness cm (in)	71 (28)	81 (32)	93 (36.75)
Intake dia. cm (in)	25 (10)	36 (14)	53 (21)

Mechanical Specifications

Model			
kW (hp)	74.6-149.1 (100-200)	111.9-186.4 (150-250)	186.4-372.9 (250-500)
Capacity kg (ton)/hr	40 640 (40)	71 120 (70)	101 600 (100)
Knives	3-4-6	3-4-6	3-4-6-8-10
RPM	875	641	508

Options

Replaceable bottom wear plate

51 cm (20 in) long knife in two 25 cm (10 in) section on 152 cm (60 in) chipper

Operational Specifications

Also available in model CO-T 48-3-5 Chipmaster system with chip screen model CS-60 with 1.5 m (5 ft) x 1.5 m (5 ft) decks; blowing system c/w motor blower and piping permitting to load trucks directly without stocking in a bin; drive, chipper 55.9 kW (75 hp), chip screen 1.5 kW (2 hp) blowing system 14.9 kW (20 hp).

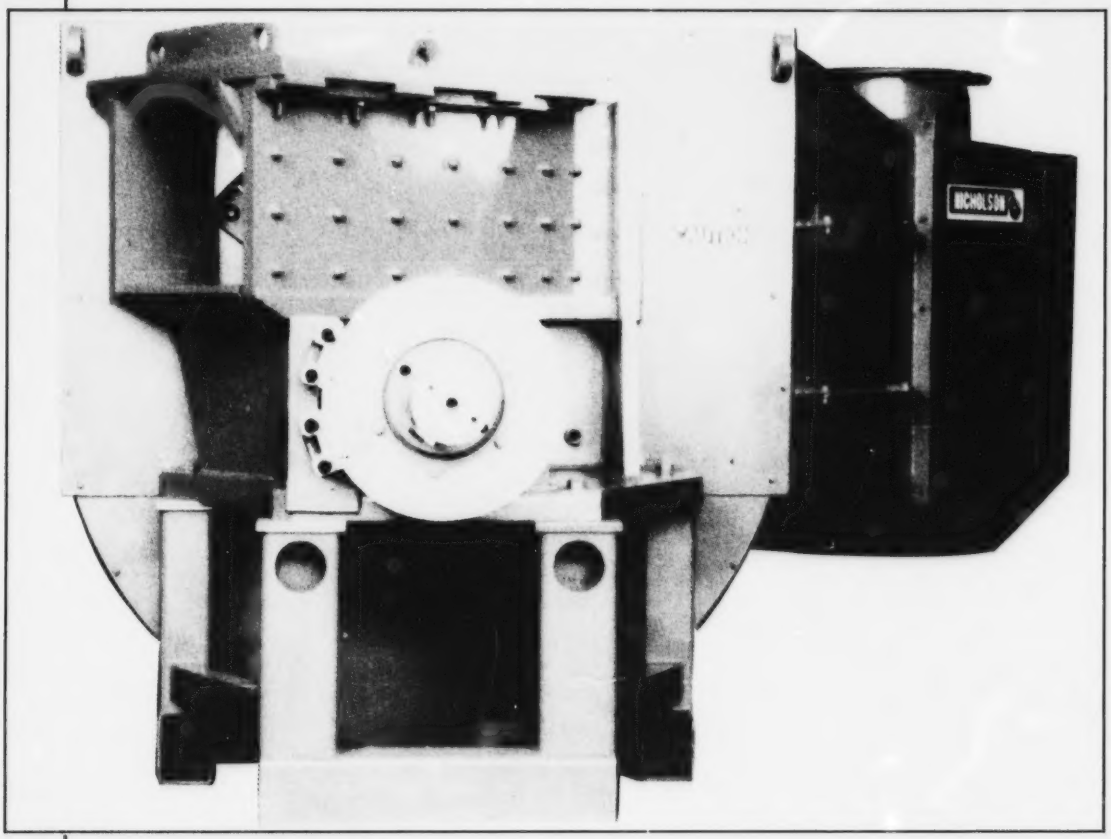
Capacity at 50 800 kg (50 tons) per 8 hours of operation.

MANUFACTURER:

COMACT INC.

4000, 40e rue
St-Georges, Que.
G5Y 5K6
TEL: (418) 228-8911
FAX: (418) 228-7466
TELEX: 05-833510

NICHOLSON S.O.S. DISC CHIPPER



The S.O.S. Disc Chipper has the spout over the shaft permitting the entire chipper structure to be set above ground, eliminating need to dig chip discharge pits.

The Nicholson Spout Over Shaft (S.O.S.) Chipper is designed specifically to handle whole logs, softwood or hardwood. It is available in 1905 mm (75 in), 2159 (85 in) and 2438 (96 in) sizes.

Operational Specifications

The S.O.S. disc chipper gives best results when chipping single logs on a continuous basis. The chipper will also handle multiple logs with a minimal loss of chip quality.

The S.O.S. disc chipper is the simplest machine to install in new or existing facilities.

Smaller disc diameters, than mentioned above are available upon request.

Particular Specifications

Chipper size, mm (in)	1905 (75)	2159 (85)	2438 (96)
Actual disc diam. mm (in)	1897 (74.7)	2166 (85.3)	2438 (96)
Disc thickness mm (in)	133 (5.25)	143 (5.63)	159 (6.25)
Max. log diam. mm (in)	536 (21.1)	615 (24.2)	693 (27.3)
No. of knives	4-6-8-10	4-6-8-10-12	4-6-8-10-12
Weight kg (lb)	6 350 (14 000)	11 340 (25 000)	15 966 (35 200)

Mechanical Specifications

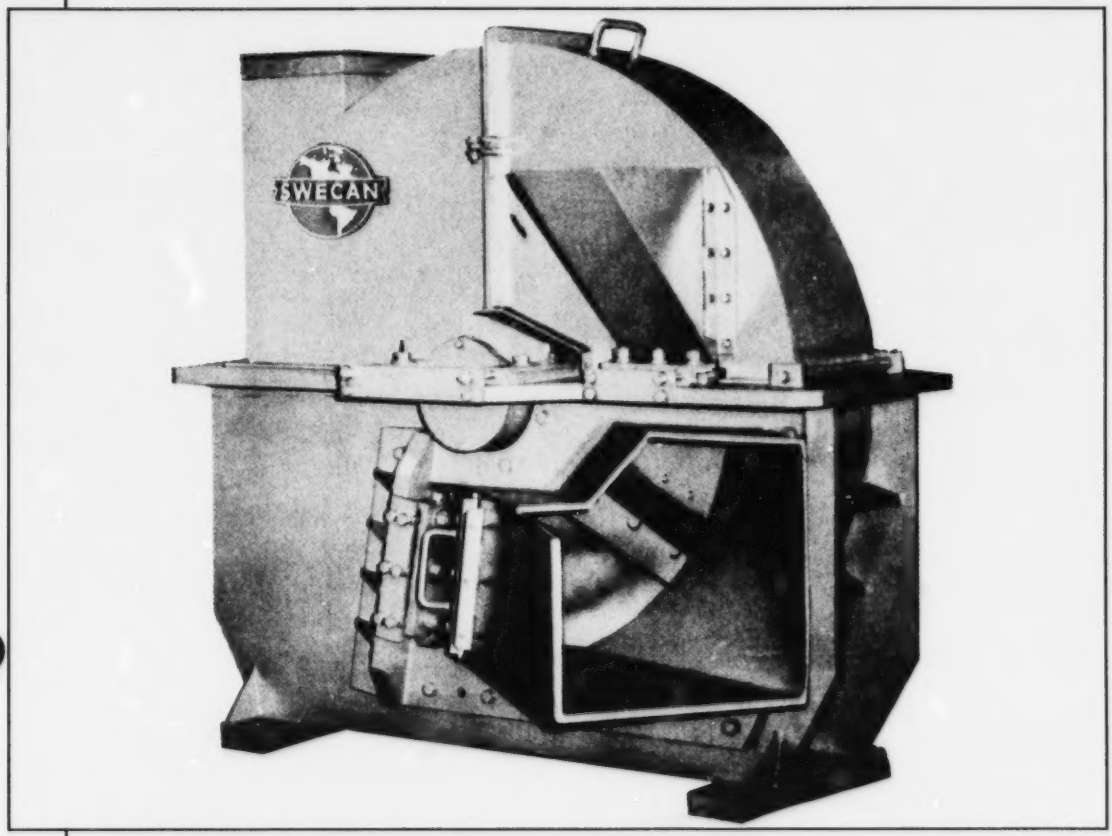
Motor kW (hp) @ 250% pull out torq.	150 (200)	224 (300)	335 (450)
Max. RPM	514	450	400

MANUFACTURER:

NICHOLSON MANUFACTURING LTD.

327 Harbour Road
Victoria, B.C.
V9A 3S2
TEL: (604) 385-6757
FAX: (604) 385-6454
TELEX: 04-97215

SWECAN HORIZONTAL FEED CHIPPERS



Swecan Horizontal Feed Chippers.

Swecan line of products includes chipper canters with 2, 3 or 4 chipper heads; combination chipper canter/twin or quad band saws; single, twin and quad band edgers; 18 in., 26 in. and 30 in. ring type debarkers/spare parts; wide band saw blades/bent chipper knives.

Swecan horizontal feed chippers with top or bottom discharge. Spout arrangement is designed to suit the customer's requirements.

Particular Specifications

Model	48	60
Dimensions mm	1575 x 1413 x 61	1930 x 1743 x 63
(in)	(62 x 55.63 x 24)	(76 x 68.63 x 25)
Required hp	74.5 kW (100 hp) to	111.8 kW (150 hp)
Approx. weight kg (lb)	3 629 (8 000)	5 216 (11 500)

Mechanical Specifications

Model	48	60
No. of knives	3-4-6	3-4-6
RPM of Disc	840	650
Log Dia. cm (in)	26 (10.25)	37.5 (14.75)
Disc	Adjustable for different chip lengths	

Operational Specifications

Production cords/hour	40	54

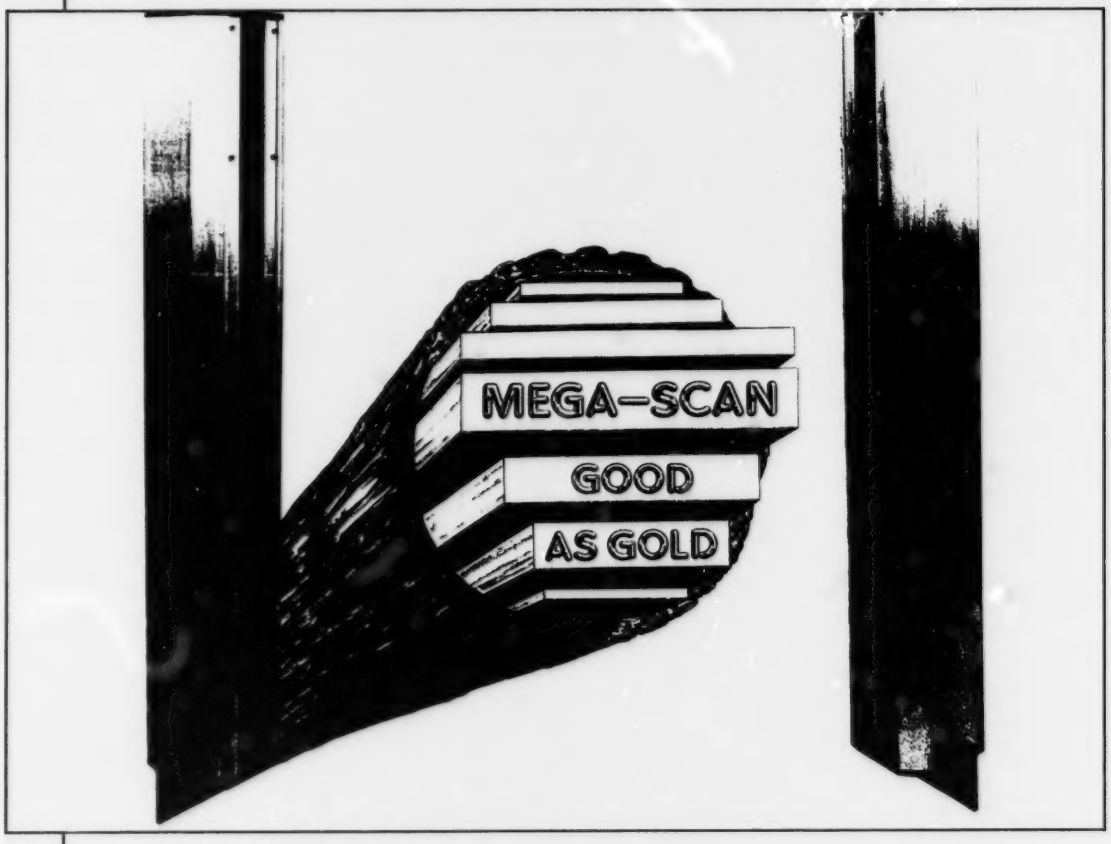
The knives are of high chrome alloy furnished with the chipper. They are mounted in precision machined pockets with replaceable alloy steel counter-knives to protect the holders from abrasive wear.

MANUFACTURER:

SWECAN INTERNATIONAL LTD.

Lanoraie, Que.
J0K 1E0
TEL: (514) 887-2313
FAX: (514) 887-2174
TELEX: 05-25609

MULTI-MEG SLASHER OPTIMIZER



Multi-Meg Slasher Optimizer.

PRICE. Product is customized to meet the purchaser's needs. the approximate 1988 price is $175,000.00. and subject to change.

Particular Specifications

This sophisticated equipment allows the acquisition, and calculation of 300,000 bits of information on each log in 10 thousandth of a second. The calculated results when coupled to complex algorithms of data processing, indicate the cut locations on a log, as long as 19.5 m (64 ft). These locations are chosen according to the log shape and the market value of the planks that will be cut.

In order to optimize the profits of a sawmill, the slasher optimizer is installed at the mills entrance, and is a valuable tool to getting the most out of a log.

MANUFACTURER:

MULTI-MEG ELECTRONICS LTD.

3675 Grand Allee
Boisbriand, Quebec
J7H 1H5
TEL: (514) 435-2121
FAX: (514) 430-3407
TELEX: 05-25134

PEL OPTIMIZED LOG BUCKING

Porter Engineering Optimized Bucking Systems for the forest products industry.

Porter Engineering specializes in scanning systems for the primary log bucking and log breakdown areas.

The Company manufactures Servoset positioners, Canscan scanners and Canscan Vision camera systems, and supplies complete process control systems which typically include: a prewired operator booth and console, a computer based scanner system, PLC based machine controls, servoset setworks, and optimization software.

PEL bucking systems include the operator's booth, console, computer room, PLC controls, computer terminal and printer — all prewired and tested.

Particular Specifications

Hardware: Most PEL Computer Systems are based on the VME-Bus using the Montorola 68000 series of processors and programmable controllers built by Allen Bradley, General Electric, or Modicon.
Cabinets: Cema 12 rated cabinets dust, oil and water tight, with air-to-air heat exchanger and air conditioner.
Encoders: are explosion proof and tough.
Diagnostics: Special diagnostics programs make trouble-shooting easy.
Documentation: Operating and maintenance manuals are custom written for each particular installation.

Operational Specifications

Longitudinal Bucking System production rates are in excess of 30 480 m (100 000 lin. ft) per shift with a single operator.

System utilizes Canscan Vision cameras to obtain log diameter, length, sweep and taper data in 1, 2 or 3 axes. Use of ramp control of conveyor drives eliminates mechanical log stops and allow conveyor speeds of up to 400 FPM.

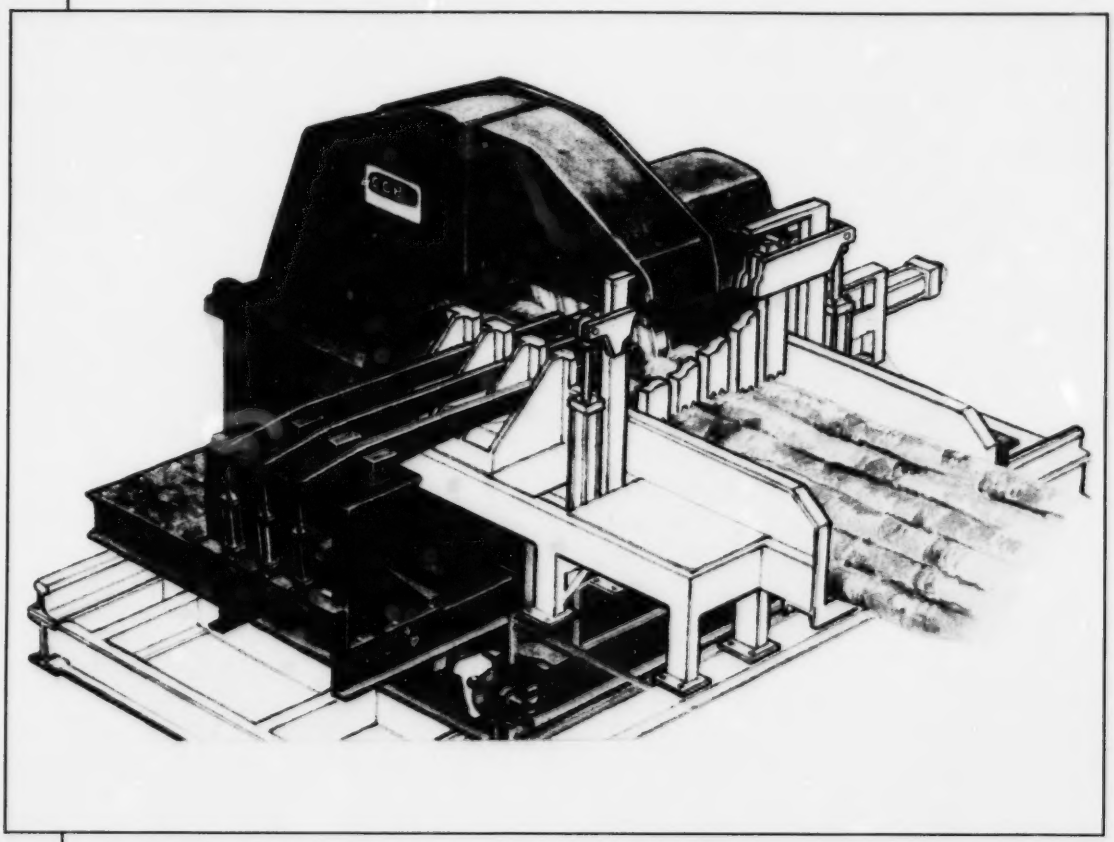
Optimum bucking solutions are based on current lumber prices, market priorities and inventory levels.

MANUFACTURER:

PORTER ENGINEERING LTD.

5800 Cedarbridge Way
Richmond, B.C.
V6X 2A7
TEL: (604) 273-1868
FAX: (604) 273-6635

CAE LONG LOG WAFERIZER



The illustration shows waferizer during flaking operation.

CAE Long Log Waferizers produce high quality wafers/strands from random length roundwood and/or slabwood.

Particular and Mechanical Specifications

Output capacity kg/hr (lb/hr)	22 680 - 27 216 (50 000 - 60 000)
Spout size cm (in)	91 (36) h x 114 (45) w x 94 (37) l
Cycle time secs.	22
Cutting time secs	13 for .064 cm (.025 in) thick flakes
Disc speed rpm	380
Motor size at rated capacity kW (hp)	373 (500) @ 1,200 rpm
Number of knife slots	24

Operational Specifications

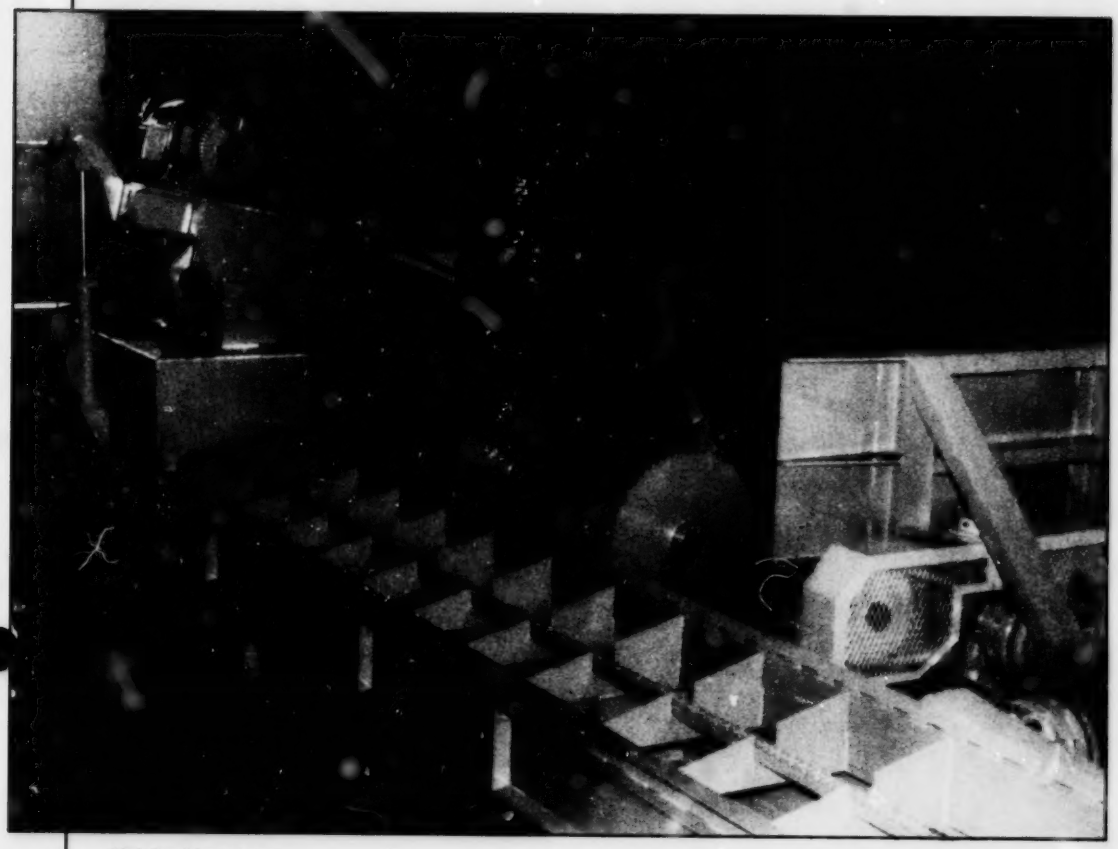
The CAE Long Log Waferizer flakes slabwood and whole logs up to 63.5 cm (25 in) in diameter. A 300 cm (118 in) diameter rimless disc mounted on a wheeled carriage advances through the wood which is clamped securely in the feed pocket; at the end of the stroke, the disc retracts, the clamps release, and the wood is advanced for the next cycle.

The machine is equipped with a PLC unit, automatically controlling all operating functions of the waferizer.

MANUFACTURER:

CAE MACHINERY LTD.

3550 Lougheed Hwy.
Vancouver, B.C.
V5M 2A3
TEL: (604) 299-3431
FAX: (604) 299-1310
TELEX: 04-53498



Mainland log sizer is a problem solver

Mainland Manufacturing are specialists in circular sawing. Mainland has concentrated on design and manufacture of cutting stations for the forest industry, specifically in the log breakdown and lumber manufacturing areas.

Log Sizer models are available in 4.8 m (16 ft) and 6.1 m (20 ft).

Particular Specifications

Carbide toothed head
Diameter logs cm (in) 30.5 (12) to 121.9 (48)

Operational Specifications

The log sizer with a carbide toothed head, reduces oversize logs or flares to a usable size, eliminates rotten portions, and rounds up mishapen logs so that the log flow is smoothed out and problem logs are eliminated. This reduces costly downtime associated with such problem logs.

MANUFACTURER:

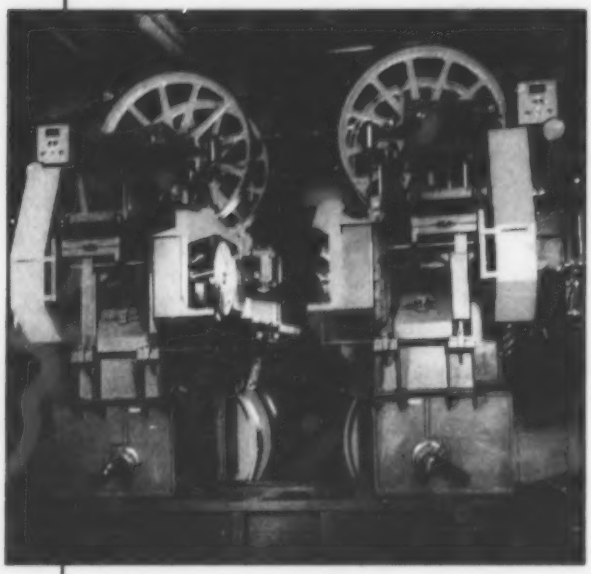
MAINLAND MANUFACTURING

15100 River Road
Richmond, B.C.
V6V 1L5
TEL: (604) 273-1455
FAX: (604) 276-0051

MAIN SAWING EQUIPMENT AND SERVICES

Band Resaws
Circular Resaws
Gang Saws
Edgers
Edger Optimizers
Trim Saws
Trim and Cant Optimizers
Chipper Canters
Chip Slabwood Processors

CAE RESAW BAND SYSTEMS



CAE 1.8 m (6 ft) vertical twin resaw (left), and CAE 1.8 m (6 ft) reducer quad bandmill (right).

CAE are specialists in the manufacture of sawmill machinery. The Company manufactures various models and setting types of carriages to satisfy varying needs. There are large, medium and small log mills, and each application varies depending on the size of logs and production requirements.

The Company manufactures various models of bandmills: double column bandmills, single column setting bandmills, complete automated systems for single, twin, and quad band resaws, and horizontal bandmill systems.

Particular and Mechanical Specifications

The CAE **single band resaw system** includes vertical or slanted applications, infeed and receiving section, fixed linebar feedworks with side press rolls, high strain setting bandmill, outfeed rollcase, variable speed controls. Options are available to fit specific requirements with system responsibility in mind.

CAE manufactures three classes of cant infeed systems, these are designated as classes I, II and III for light, medium and heavy duty applications.

Cant Feed System	Class I	Class II	Class III
Max. Cant Width	508 mm (20")	762 mm (30")	914 mm (36")
Max. Cant Height	305 mm (12")	610 mm (24")	762 mm (30")

The CAE **twin band resaw system** includes, in addition to those features mentioned above, twin setting high strain bandmills with precision closed loop hydraulic servo setworks and operator controls.

Cant Feed System	Class II	Class III
Max. Cant Width	762 mm (30")	1219 mm (48")
Max. Cant Height	610 mm (24")	762 mm (30")

The CAE **quad resaw systems** conventional or slated are designed to handle heavy cants up to 91 cm (36") wide x 76 cm (30") high, from 2.4 m (8') to 9.8 m (32') long. The cant infeed systems are constructed to CAE's class three specifications and cants can be fed from either side.

Cant Feed System	Class III
Max. Cant Width	762 mm (30")
Max. Cant Height	914 mm (36")

CAE manufactures 1.5 m (5') and 1.8 m (6') single or twin horizontal* bandmills in tandem or back to back configuration for fixed or setting applications.

	1.5 m (5')	1.8 m (6')
Max. Strain kg (lb)		
Operating	8 618 (19 000)	11 340 (25 000)
Maximum	10 886 (24 000)	13 608 (30 000)
Recommended Saw Gauge	16 or 17 ga.	15 or 16 ga.
Throat Opening mm (in)	914 (36)	1067 (42)
Suggested Feed Speed m/min (fpm)	0-122 (0-400)	0-122 (0-400)
Suggested Saw Speed m/min (fpm)	Both machines 1 829-3 124 (6 000-10 250)	
Setting Speed*	102 mm (4 in/sec) standard	
Setworks Accuracy	±0.051 mm (0.002 in)	
Standard Set Stroke**	305-610 mm (12-24 in)	
Standard Number of Sets	10 each infinitely programmable in 0.001" increments up to full stroke.	

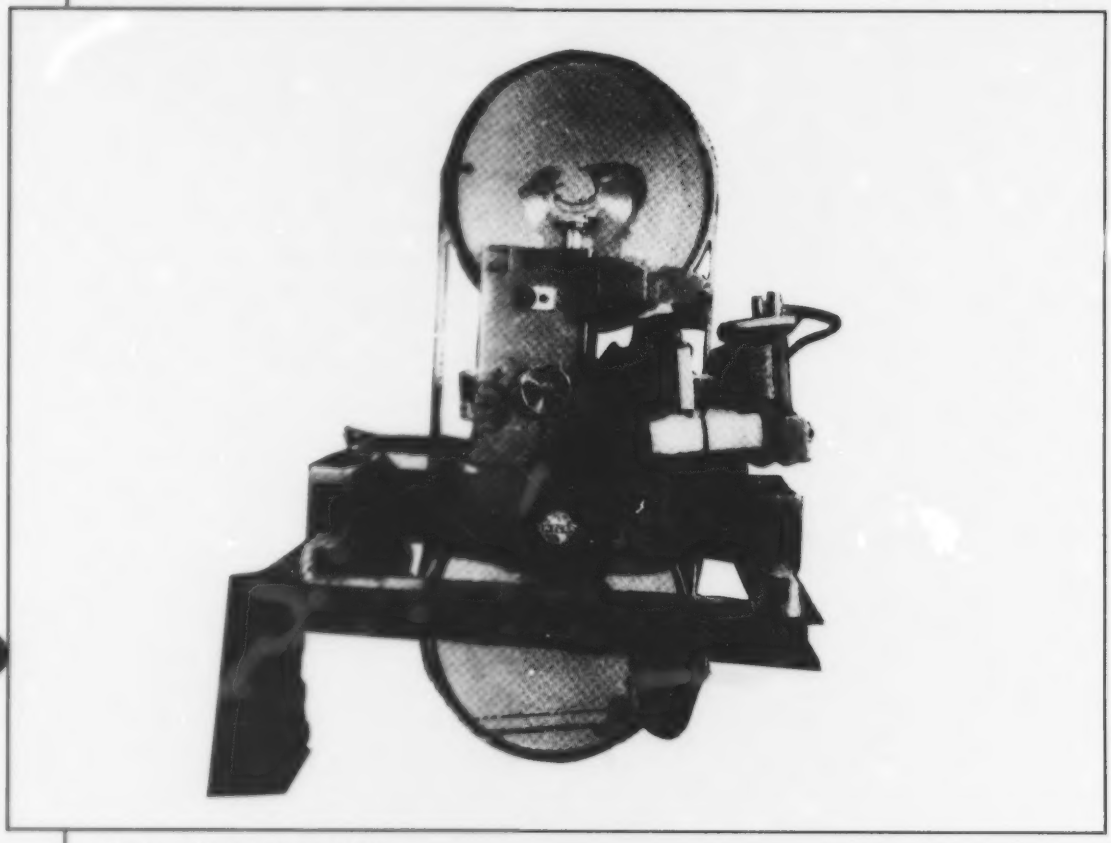
*Higher setting speeds available.
**On the twin band and quad band resaw systems, the standard set stroke can be set to suit a particular application.
Feed height over saw 559 mm and 711 mm (22 in and 28 in) for the 5 ft. and 6 ft. saw respectively.
CAE will tailor fit specific requirements, with full systems.

MANUFACTURER:

CAE MACHINERY LTD.

3550 Lougheed Hwy.
Vancouver, B.C.
V5M 2A3
TEL: (604) 299-3431
FAX: (604) 299-1310
TELEX: 04-53498

SWECAN HIGH TENSION TILTING BAND RESAW



Swecan 55 in High Strain Tilting Band Resaw with Movable Line-bar Attachment.

Swecan line of products includes chipper canters with 2, 3 or 4 chipper heads; combination chipper canter/twin or quad band saws; single, twin and quad band edgers; 18 in., 26 in. and 30 in. ring type debarkers/spare parts; wide band saw blades/bent chipper knives.

Particular Specifications

Sturdy steel base frame, pivoting type, manual adjustment by screw-jactuator, max. tilting of 15 degrees.
Motorized wheel lift straining mechanism.
Manual top guide adjustment.
The unit can also slide on a traverse-beam in order to keep the correct cutting position (manual adjustment).

Mechanical Specifications

Heavy duty line-bar infeed mechanism, model LBEU with two 38.1 cm (15 in) dia. knurled press rolls, and five horizontal rolls 18.7 cm (7 3/8 in) x 53.5 cm (21 in) long. All rolls are driven by hydraulic motors.

Cast guide-bar approx. 2.6 m (8 1/2 ft) long with five vertical rolls. Four are driven by hydraulic motor, the fifth is idling and located behind the saw blade.

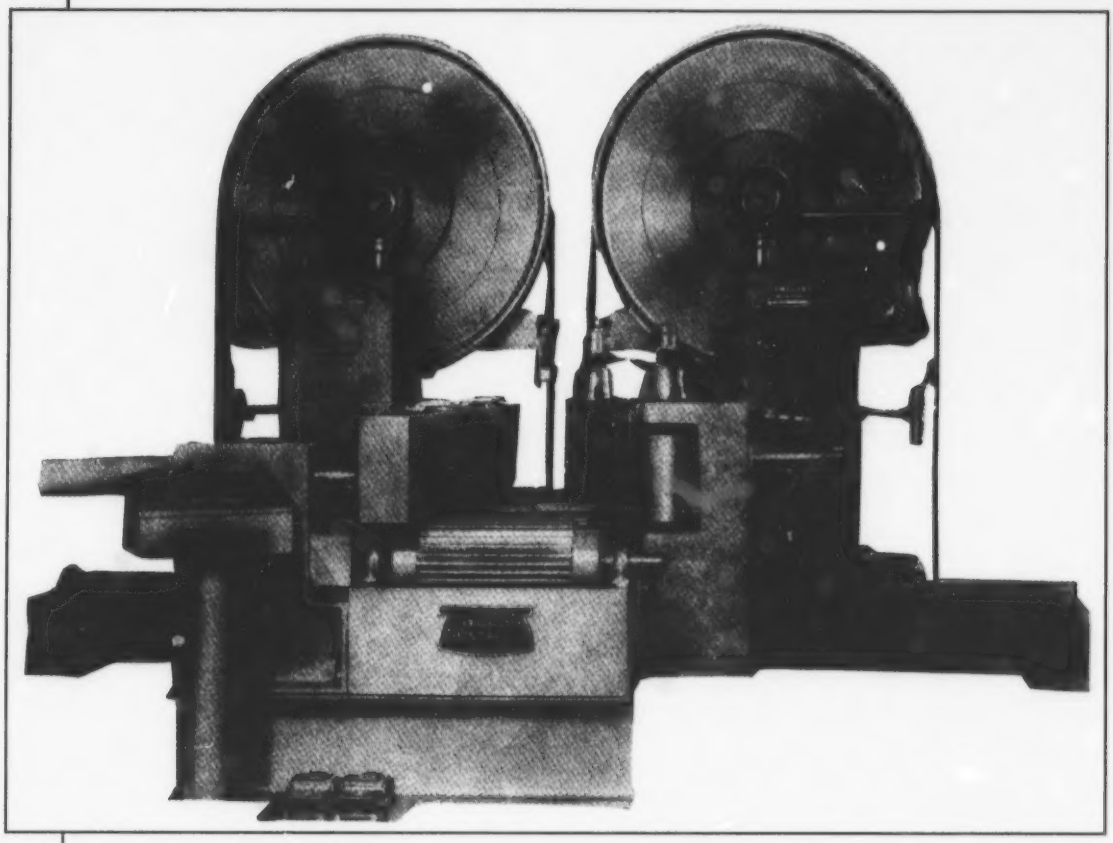
One 11.1 kW (15 hp) hydraulic power pack unit to supply drive for rolls.

Available: Line-Bar Infeed mechanism with fixed guide-bar.

MANUFACTURER:

SWECAN INTERNATIONAL LTD.

Lanoraie, Que.
J0K 1E0
TEL: (514) 887-2313
FAX: (514) 887-2174
TELEX: 05-25609



Swecan Model TWPL52-LBHD
Twin Linebar Resaw

Swecan line of products includes chipper canters with 2, 3 or 4 chipper heads; combination chipper canter/twin or quad band saws; single, twin and quad band edgers; 18 in., 26 in. and 30 in. ring type debarkers/spare parts; wide band saw blades/bent chipper knives.

Also available three models of Twin Linebar Resaws, and two models of Quad Band Linebar Resaws.

Operational Specifications

For slabs or cants up to 61 cm (24 in) x 61 cm (24 in). Designed for high saw strain operation.

Particular Specifications

Linebar:
Swecan Model LBHD with
- H.d. box frame 2.1 m (7 ft) bar with idler rolls
- Five powered table rolls 22.9 cm (9 in) diam. x 61 cm (24 in) long
- Two air pressured vertical feed rolls 22.9 cm (9 in) x 30.5 cm (12 in)
- Air cylinders 10.2 cm (4 in) x 15.2 cm (6 in) c/w controls
- Hydraulic Variable Feed Drive
- Vertical & Horizontal rolls driven by hydraulic motors

Husks:
Compact one piece cast iron columns designed for maximum rigidity with wheels for saws 17.8 cm (7 in) in width.

Setworks:
Electronic setworks, 10 settings on guide bar, 10 settings on movable band.

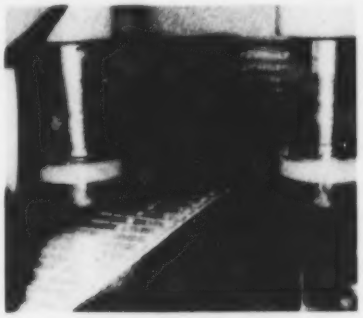
Saw Widths:
20.3 cm (8 in) or 22.9 cm (9 in) or 25.4 cm (10 in)

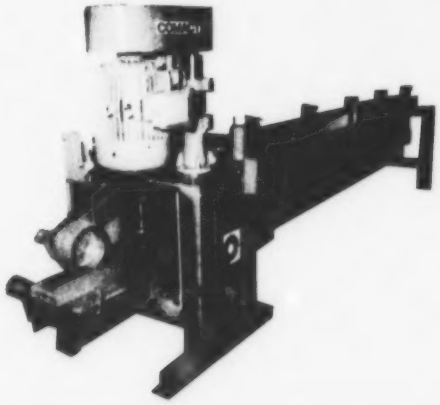
MANUFACTURER:

SWECAN INTERNATIONAL LTD.

Lanoraie, Que.
J0K 1E0
TEL: (514) 887-2313
FAX: (514) 887-2174
TELEX: 05-25609

COMACT HORIZONTAL CIRCULAR RESAW





Comact 903D horizontal circular resaw equipped with 2 saws.

Comact Model 903D horizontal circular resaw equipped with two saws.

Particular Specifications

Resawing width capacity, cm (in) 20.3 (8) & 25.4 (10)
Length capacity m (ft) 2.4 (8) to 4.9 (16)
Mounted on edger outfeed table with 10.2 cm (4 in) wide belt.
Two saw sets diam. cm (in) 40.6 (16) & 46 (18)
Saw positioning with 12 computerized selections from 0 to 17.8 cm (7 in)

Mechanical Specifications

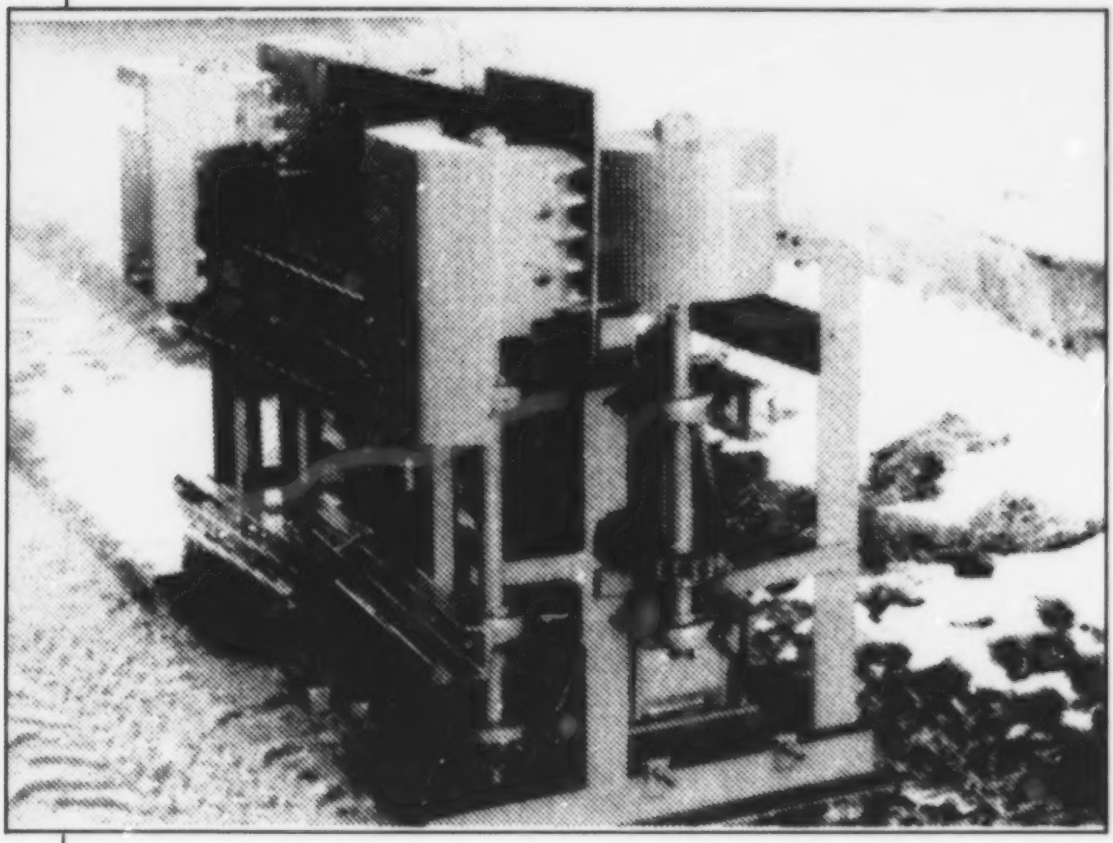
Power kW (hp) 55.9 (75) to 1800 RPM
Belt and 6 top rolls, 4 are motorized hydraulically kW (hp) 7.5 (10)
Rollers, belt, hyd. cylinders driven from hydraulic unit.

Operational Specifications

Installed on outfeed table of board edger, with the positioning buttons located in edger console.

MANUFACTURER:

COMACT INC.
4000, 40e rue
St-Georges, Que.
G5Y 5K6
TEL: (418) 228-8911
FAX: (418) 228-7466
TELEX: 05-833510



Desjardins individual resaw.

Desjardins resaws are available in two models: mechanical or hydraulic types.

PRICE: Approx. $6,795.00 F.O.B. St-Andre, Que. (1988).

Particular Specifications

Height cm (in)	132 (52)
Length cm (in)	183 (72)
Width cm (in)	81.3 (32)
Weight kg (lb)	794 (1750)

Mechanical Specifications

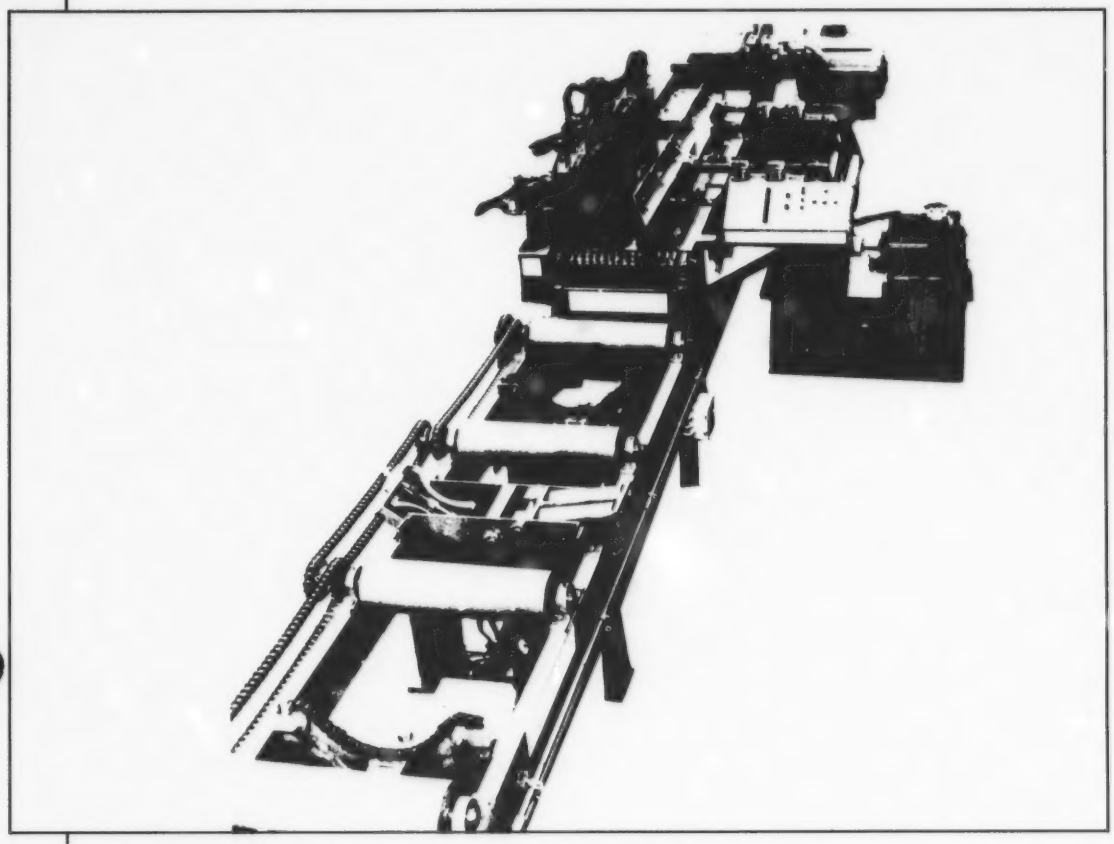
Power req. kW (hp)	22.4 (30)
Variable speed (on the hydraulic model)	
Insert tooth saw cm (in)	71 (28) to 81.3 (32)
Capacity cm (in)	1.9 (3/4) to 15.2 (6)

MANUFACTURER:

LES INDUSTRIES DESJARDINS LTÉE.

79 rue Principale
St-Andre, Quebec
G0L 2H0
TEL: (418) 493-2114
FAX: (418) 493-2432

T.S. CIRCULAR LINE-BAR RESAW



T.S. Circular Line-Bar Resaw, self contained, rugged unit shown here.

T.S. Manufacturing designs and manufactures machinery at their Lindsay, Ontario plant for a wide range of mills throughout the world. They do everything from a single machine modification or rebuilding, to turnkey projects, including concept engineering, manufacturing and installation.

T.S. Manufacturing makes a full line of log handling and processing equipment, lumber handling and processing equipment, waste handling and processing equipment, complete sawmills, planing mills and wood room installations.

T.S. Kerf Control Saw Husk and T.S. Cab are a part of the full line of custom manufactured sawmill machinery.

Particular Specifications

Saw sizes cm (in) 91.4 (36) to 122 (48)
Coleman inserted, hyd. driven feed and press rolls
Pneumatic and electric setworks
Power kW (hp) 37.3 (50) T.E.F.C.
Available with auto cant turner and slab aligner and feeder infeed
Outfeed available with kickers, stop gates, spiral rolls, etc.
Options: Infeed with chain turning bars, outfeed as per specs., larger motor, narrower kerf, double arbor.

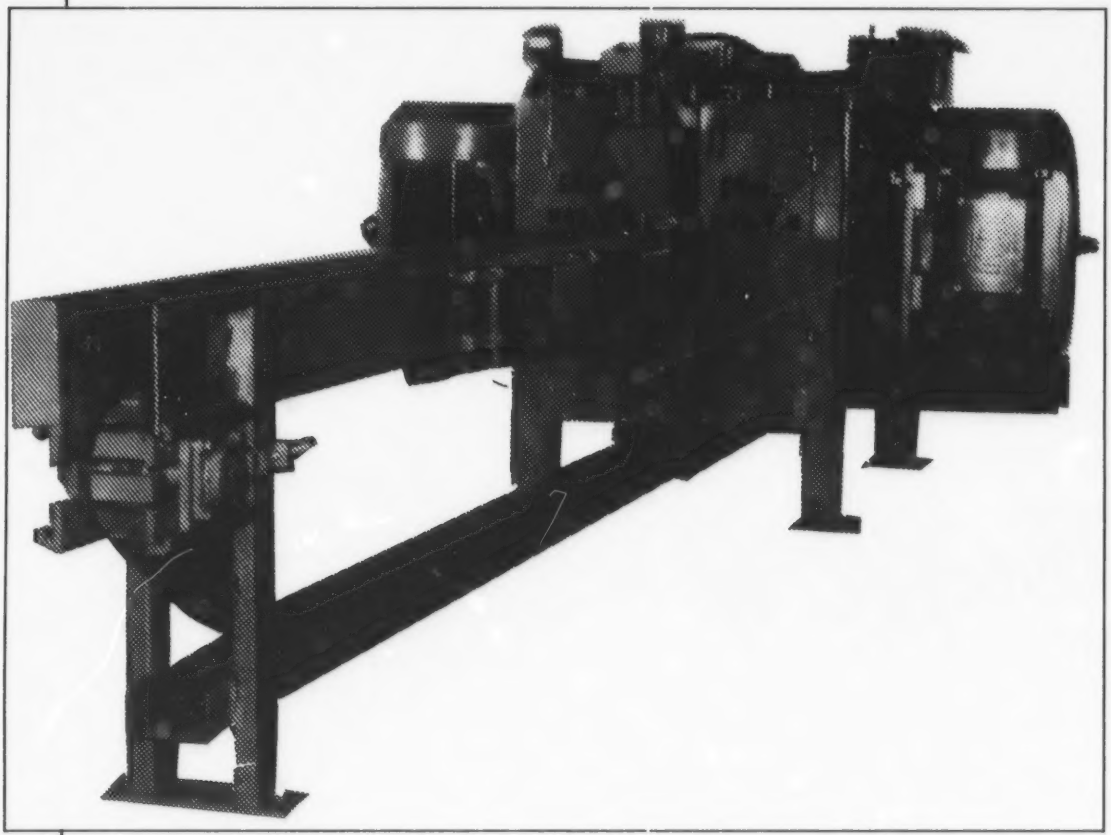
Operational Specifications

The pneumatic and electrical setworks, accurately positions line bar to any predetermined size. The outfeed squeeze rolls help to eliminate hangups.

MANUFACTURER:

T.S. MANUFACTURING COMPANY

P.O. Box 487
55 Needham Street
Lindsay, Ontario
K9V 4S5
TEL: (705) 324-6482
FAX: (705) 324-6482
TELEX: 06-962802



Comact 948 high performance bull (left), up to 162 m/min (530 ft/min), and vertical bull (right).

Comact are specialists in manufacturing sawmill machinery. In gang saws, the Comact model 948 bull can be adapted to existing sawmills.

Particular Specifications

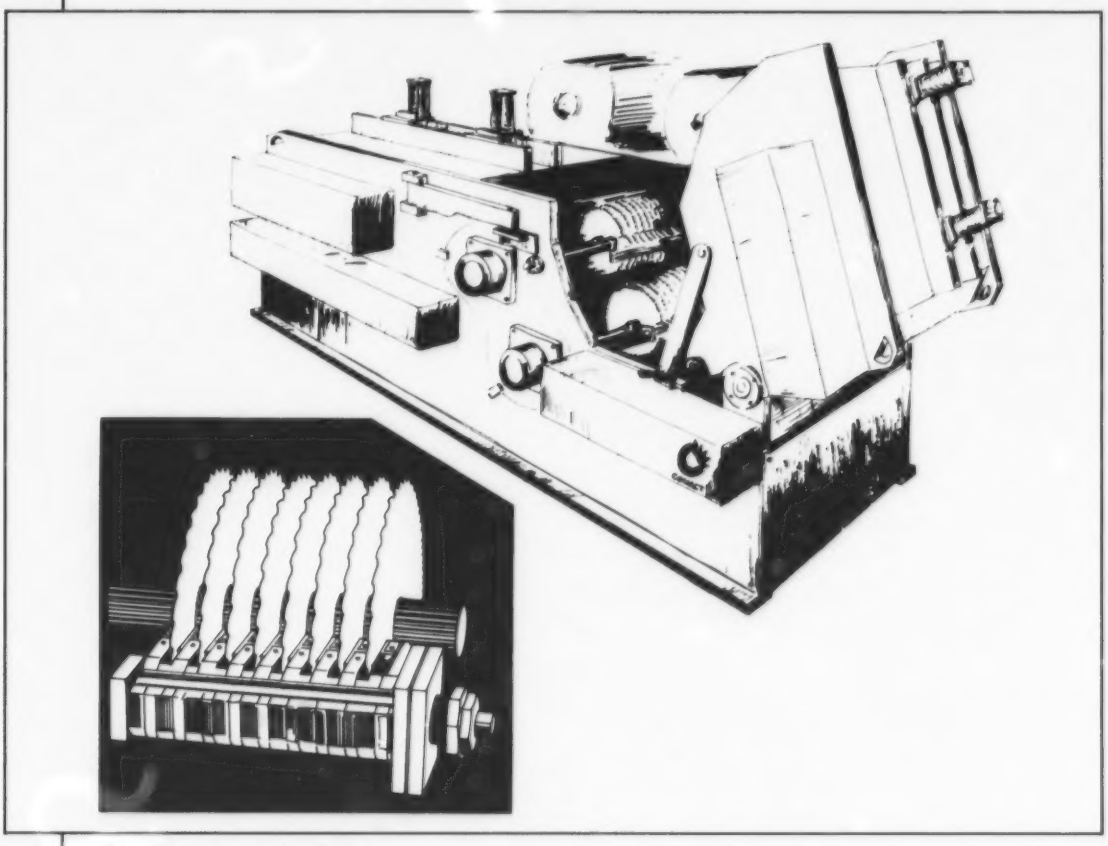
Simple or double arbor bull	
Thickness capacity cm	15.2, 20.3, 25.4, 30.5
(in)	(6), (8), (10), (12)
Arbor diam. cm (in)	12.7 (5), 15.2 (6)
Number of independent feed rolls	8
Variable feed speed by hyd. motor	15.2 m/min (50 fpm) to 161.5 (530 fpm)
Motorized top press rolls	

MANUFACTURER:

COMACT INC.

4000 40e rue.
St. Georges Ouest,
Que. G5Y 5K6
TEL: (418) 228-8911
FAX: (418) 228-7466
TELEX: 05-833510

COMACT DOUBLE ARBOR GANG SAW



Comact model 948-DS double arbor gang with ultra thin kerf guide bars.

Comact manufactures the model 948-DS double arbor gang saw with ultra thin kerf guide saws. This is done in association with Pacific/Hoe.

Particular Specifications

Capacity thickness, cm 15.2, 20.3, 25.4, 30.5
(in) (6), (8), (10), (12)

Heavy duty steel frame 5.1 cm (2 in) thick sideplates
Hydraulic pressure on top press rolls with height preset
Solid tooth chromed bottom feed rolls
E-Z flow programmable lubricating system
Circular babbit guide systems

Operational Specifications

A synthetic base oil is used for lubrication, that is not soluble in water, and does not wipe off easily, so full lubrication is achieved with only small amounts of oil and water.

The circular babbit guide system gives quick, easy replacement of parts with minimum downtime. Saws can be changed by loosening a lock nut, or releasing the hydraulic closing unit. The arms rotate back, and the saw can be removed quickly. Net cuts can be varied by simply changing the spacers between guide arms, and the guide pad thickness.

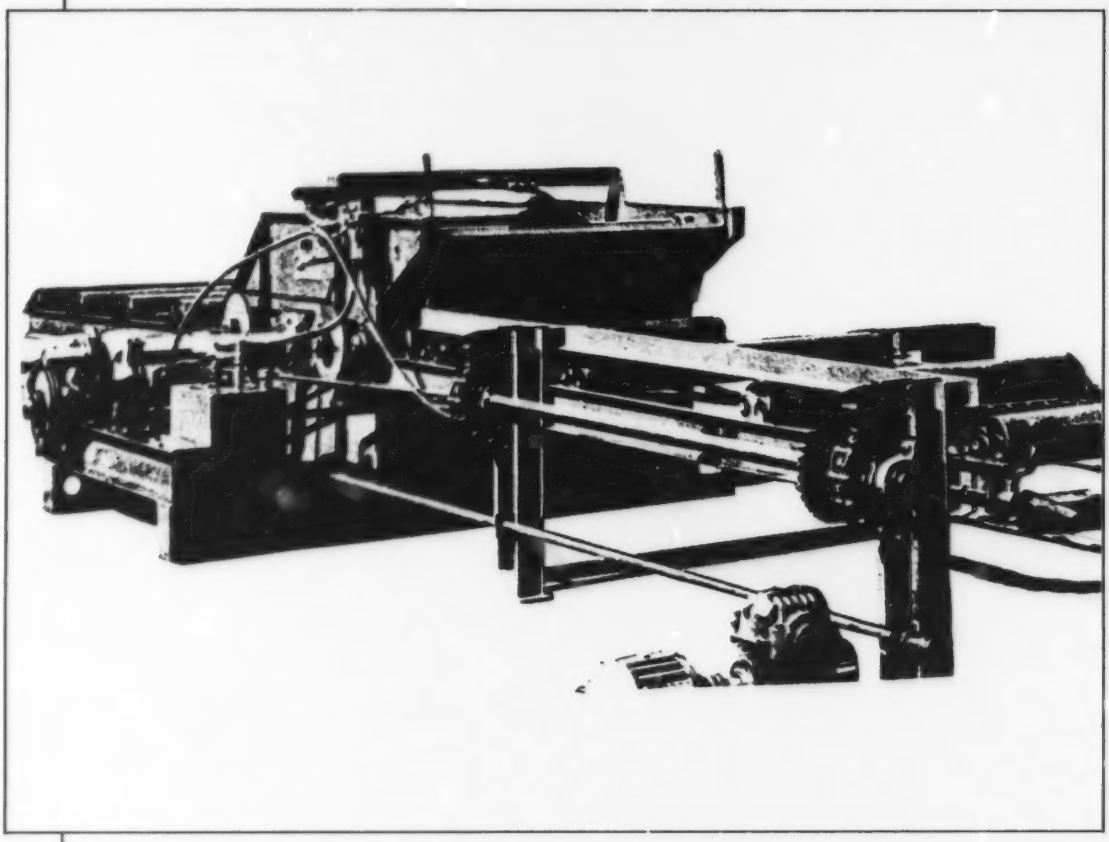
Each system is custom made to individual specifications, to accommodate the purchaser's specific equipment, and to maximize the output of the sawmilling operations.

MANUFACTURER:

COMACT INC.

4000 40e rue.
St. Georges Ouest,
Que. G5Y 5K6
TEL: (418) 228-8911
FAX: (418) 228-7466
TELEX: 05-833510

ALMAC HEAVY DUTY EDGERS



Almac 10 x 91 cm (4 x 36 in) Edger, 8 roll: left hand. 3.4 m (11 ft) table with ball bearing mounted machined rolls

Almac Heavy duty gang type edgers are available in the following sizes, cm (in): 15 (6) x 107 (42), 20 (8) x 122 (48), 15 (6) x 122 (48), 20 (8) x 137 (54), 15 (6) x 137 (54), 20 (8) x 152 (60), right or left hand.

They are also available as 10 (4) x 91 (36), in 3 basic models: double infeed-double outfeed, double infeed-single outfeed, single infeed-double outfeed.

Particular Specifications

Intake opening, cm (in)	12.1 x 91 (4 3/4 x 36)
Saws, 8 Gauge; choice of cm (in)	41 (16) or 46 (18)
Saw arbor cm (in)	7.5 (2 15/16) alloy steel
Feed rolls cm (in)	15.2 (6) dia. powered, studded

8 feed rolls, double infeed-double outfeed, 6 powered, weight 1560 kg (3440 lb)
6 feed rolls, double infeed-single outfeed, 5 powered, weight 1349 kg (2975 lb)
6 feed rolls, single infeed-double outfeed, 4 powered, weight 1338 kg (2950 lb)

Operating speed rpm	3,000
Feed rate	

5.1 cm (2 in) boards up to 61 m/min (200 fpm)
10.2 cm (4 in) cants up to 27.4 m/min (90 fpm)

Mechanical Specifications

Power required	44.7-93.2 kW (60-125 hp)

Operational Specifications

In winter, icy boards or cants are generally no problem with the edger, as large diameter studded rolls (a total of six on the 8-roll machine) provide a vise-like grip for fast, direct line feed.

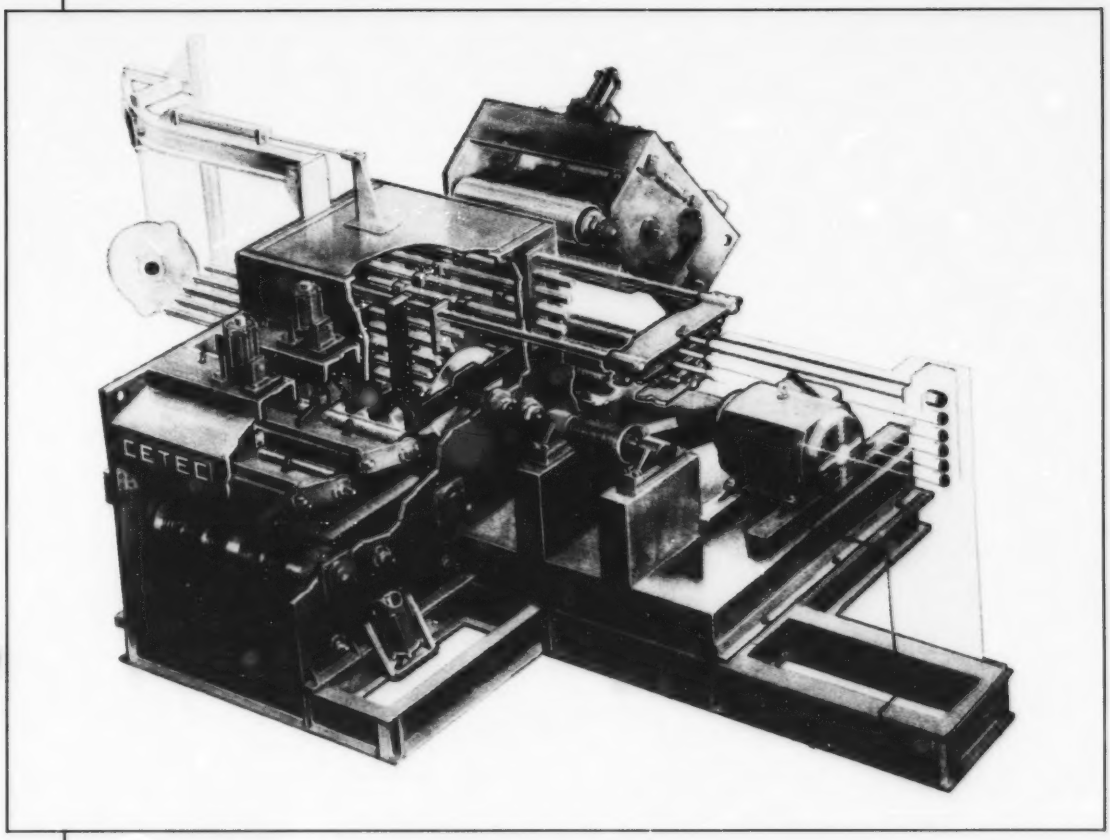
Safety features include a front mounted anti-kickback assembly, quick release feature to stop rolls, and all guarded drive components.

MANUFACTURER:

ALMAC MACHINE WORKS LTD.

9539 - 56th Ave.
Edmonton, Alta.
T6E 0B2
TEL: (403) 434-3402
FAX: (403) 437-3507

CETEC EDGERS AND CIRCULAR GANGS



Cetec edgers and circular gangs are manufactured with precision saw guides, producing ultra thin kerf.

Cetec is a complete sawmill equipment manufacturer. Cetec's advances in the use of fine kerf sawing technology have produced accurate circular cutting machines.

Particular Specifications

Cetec edgers and circular gangs are part of a complete sawing system. Complementary Cetec infeed and outfeed systems, as well as setworks and controls can be added to maximize efficiency.

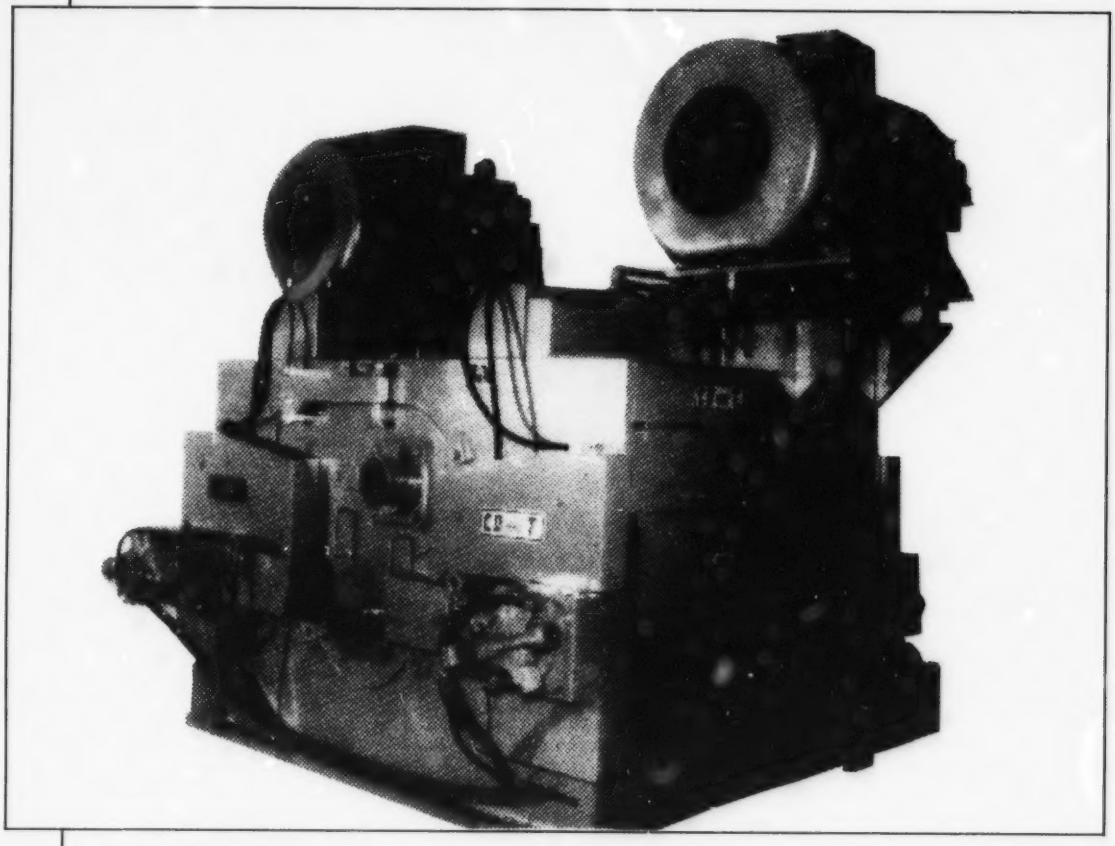
Some features of the edgers and circular gang equipment are: feed speeds to 183 m (600 ft) per min., precision guided fine kerf, shifting saws, multisaw gangs, precise repeatability, single/double sided, selective or gangs, combined with bandsaws or freestanding.

MANUFACTURER:

CETEC ENGINEERING COMPANY INC.

5595 Roy Street
Burnaby, B.C.
V5B 3A5
TEL: (604) 291-7550

COMACT BULL-EDGER



Comact 948-D Bull Edger with motor mounted on the top of bull.

Manufactured by Comact, the model 948-D bull edger with motor installed on the side, or on top of bull, with bulledger 30.5 cm (12 in).

Particular Specifications

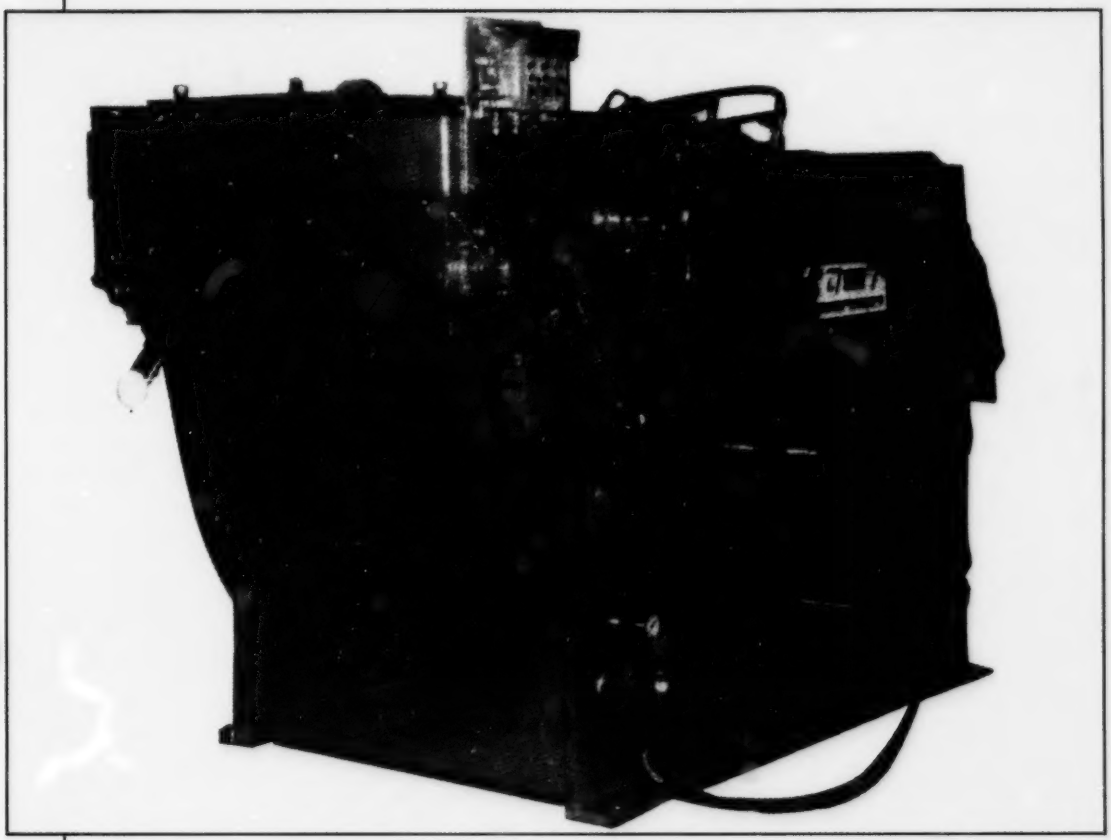
Simple or double arbor edger	
Thickness capacity, cm (in)	15.2 (6), 20.3 (8), 25.4 (10), 30.5 (12)
Arbor diam. cm (in)	12.7 (5) - 15.2 (6)
independ. feed rolls	
Edger side	6-8-10
Gang side	6-8-10
Variable feed speed by	
hydraulic motor m (ft)/min	15.2 (50)/152.4 (500)
Motorized top press rolls	
Options:	
automatic setworks	

MANUFACTURER:

COMACT INC.

4000, 40e rue
St-Georges, Que.
G5Y 5K6
TEL: (418) 228-8911
FAX: (418) 228-7466
TELEX: 05-833510

Comact are specialists in manufacturing sawmill machinery. Edger Model 836H, frame of 97 cm (38 in) and 127 cm (50 in).



The standard Comact Model 836H Edger.

Operational Specifications

The maximum thickness capacity for both machines is 15.9 cm (6 1/4 in). There is an electric security system to ensure no positioning occurs when there is wood in the saw.

Particular Specifications

Model size	97 cm (38 in)	127 cm (50 in)
Nominal width rolls cm (in)	81.3 (32)	112 (44)
Frame inside width cm (in)	97 (38)	127 (50)
Saw arbor diam. cm (in)	11.1 (4 3/8)	11.1 (4 3/8)
Max. saw diam. cm (in)	51 (20)	51 (20)

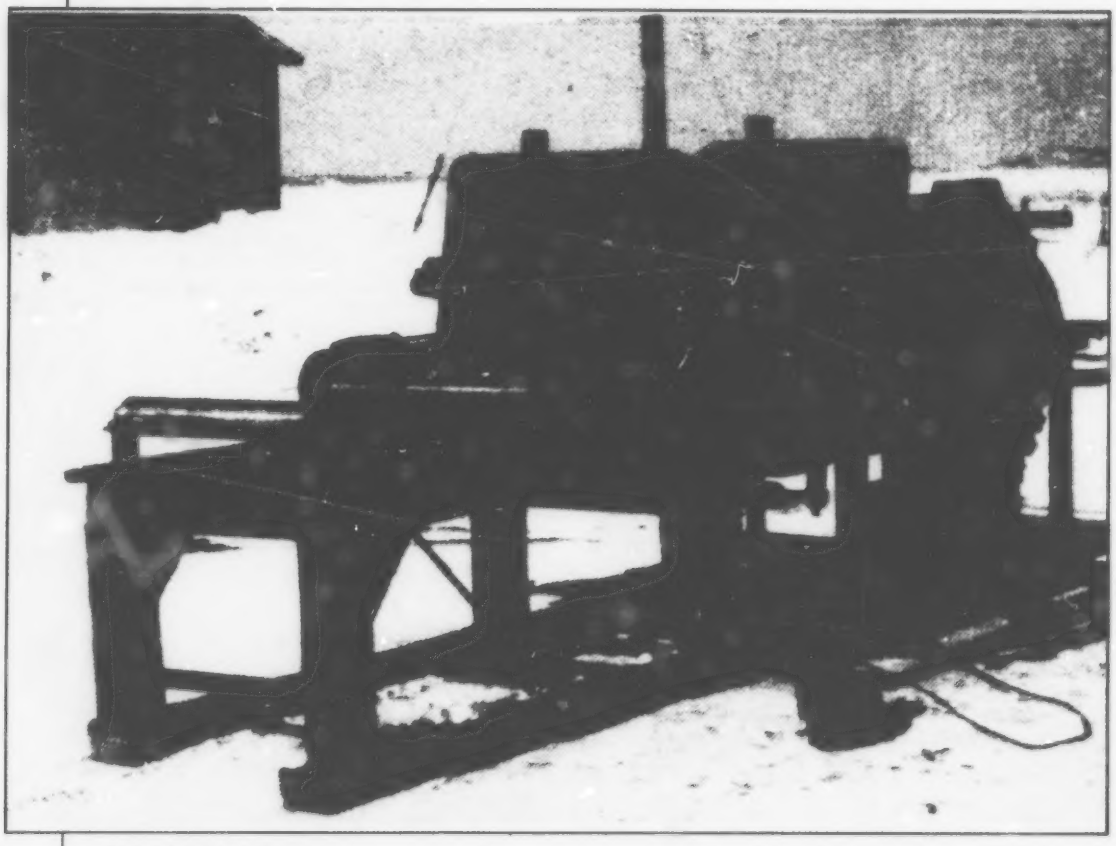
Mechanical Specifications

Max. feed speed @ power kW (hp)	152 m/min (500 fpm) @ 5.6 (7.5)	
Arbor speed RPM	2100	2100
Optional:		
Saw 51 cm (20 in) dia. x 8 x 48 teeth		
Variable feed speed		
Electro-pneumatic setwork from 7.6 cm (3) to 30.5 cm (12)		
Hydraulic servo actuator from 7.6 cm (3) to 38.1 cm (15)		
Shadow line		
Rolls or belt outfeed table		
Motorization kW (hp)	37.3 (50) to 112 (150)	

MANUFACTURER

COMACT INC.

4000, 40e rue
St-Georges, Que.
G5Y 5K6
TEL: (418) 228-8911
FAX: (418) 228-7466
TELEX: 05-833510



Desjardins edger in the 37.3 kW (50 hp) class.

PRICE: F.O.B. St-Andre, Que. (1988) available on request.

Particular Specifications

Height cm (in)	152.4 (60)
Length cm (in)	3.05 m (10 ft)
Width cm (in)	172.7 (68) to 198.1 (78)
Weight kg (lb)	1 588 (3 500)

Mechanical Specifications

Power kW (hp)	37.3 (50)
Saws	1 fixed and one movable
Operating Capacity mm (in)	152 (6) thick by 406 (16) wide
Controls	Manual or optional hydraulic

Les Industries Desjardins are manufacturers of farm and sawmill machinery, as well as distributors of hydraulic accessories, electrical motors and accessories, and other sawmill accessories.

Conveyors are available in mobile or fixed configurations.

Operational Specifications

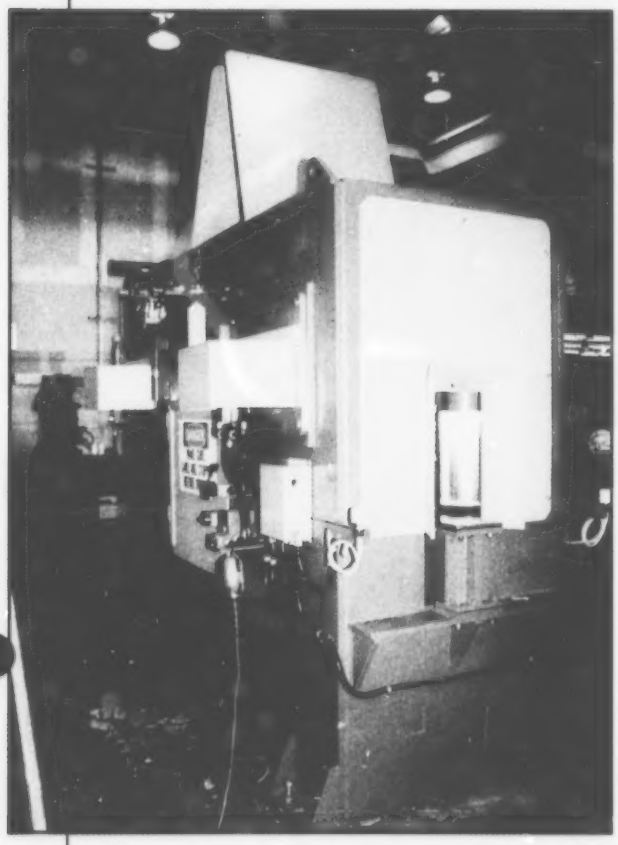
The operating speed of the edger is some 48.8 m (160 ft) per min. The edger is available with different saw flanges for placing 3 fixed or 2 mobile saws, or different combinations.

MANUFACTURER:

LES INDUSTRIES DESJARDINS LTEE.

79 rue Principale
St-Andre, Que.
G0L 2H0
TEL: (418) 493-2114
FAX: (418) 493-2432

OPTIMIL VERTICAL ARBOR EDGERS



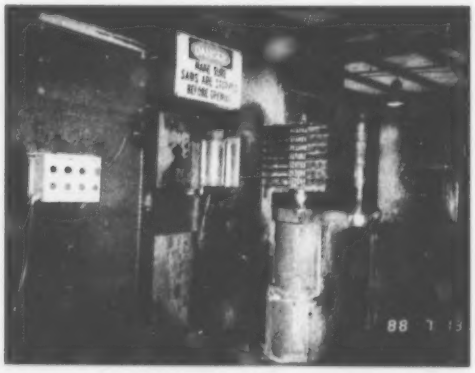


Photo left shows the vertical arbor edger shown in single and double arbor. This machine is suitable for accurate low kerf sawing at high speed feed rates. The photo above shows the swing out arbor and guide assembly which enables easy access to the saws and guides.

The Optimil product line consists of Canter feed systems, Canters, Close coupled circular saw sections, Circular gang edgers, Edger feed systems, Circular saw board edgers, Edge chippers, and Circular resaws.

Horizontal Arbor Edgers are also available.

Particular Specifications

Height	Approx. 2.3 m (7.5 ft)
Overall length	Approx. 3.0 m (10 ft)
Max. Width	Approx. 2.4 m (8 ft) (double arbor)
Bedline	106.7 cm (42 in)
Total Weight kg (lb)	5 443 (12 000) to 9 072 (20 000)

Operational Specifications

Optimil manufactures vertical arbor edgers that process 10.2 cm (4 in) to 30.5 cm (12 in) wide cants, with or without guides. These machines incorporate electric or hydraulic feedworks operating up to 122 m/min. (400 fpm).

MANUFACTURER:

OPTIMIL MACHINERY INC.

8320 River Road
Delta, B.C. V4G 1B5
TEL: (604) 946-6911
FAX: (604) 946-5199
TELEX: 04-357822

OPTIMIL HORIZONTAL ARBOR EDGERS

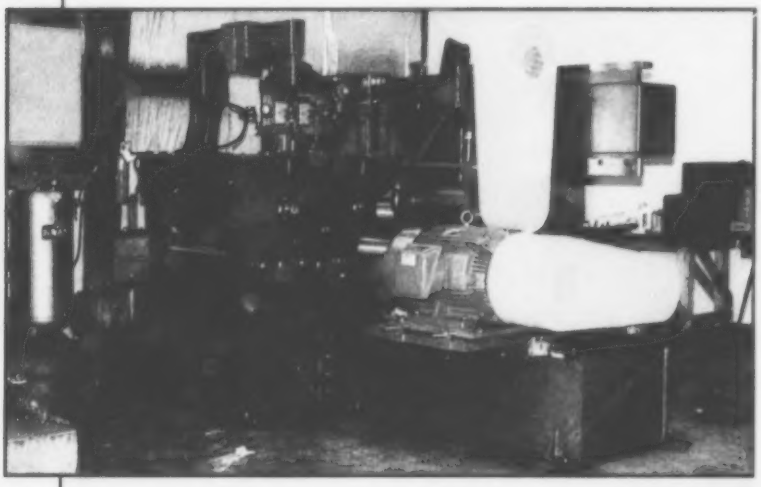
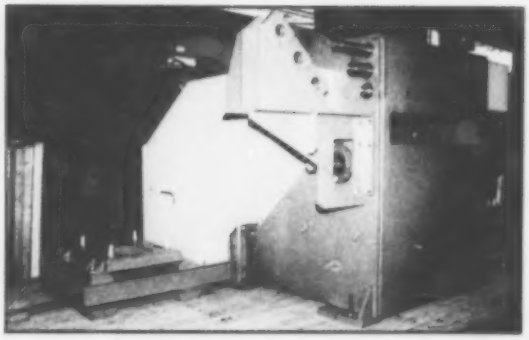


Photo above, the shifting three saw edger works in conjunction with an Optimil board optimizing system. The saws shift across a splined arbor by means of saw guides. Positioning to the saw is accomplished by Optimil's linear positioners. The photo on right, on this machine, the saws are mounted direct to the arbors and the entire arbor assembly shifts. These machines are being used with optimizing infeeds for maximum recovery.



The Optimil product line consists of Canter feed systems, Canters, Close coupled circular saw sections, Circular gang edgers, Edger feed systems, Circular saw board edgers, Edge chippers, and Circular resaws.

Vertical Arbor Edgers are also available from Optimil.

Particular Specifications

Height	Varies with design
Overall Length	Varies with design
Maximum Width	Varies with design
Bedline	Approx. 106.7 cm (42 in)
Total Weight kg (lb)	3 402 (7 500) to 9 072 (20 000)

Operational Specifications

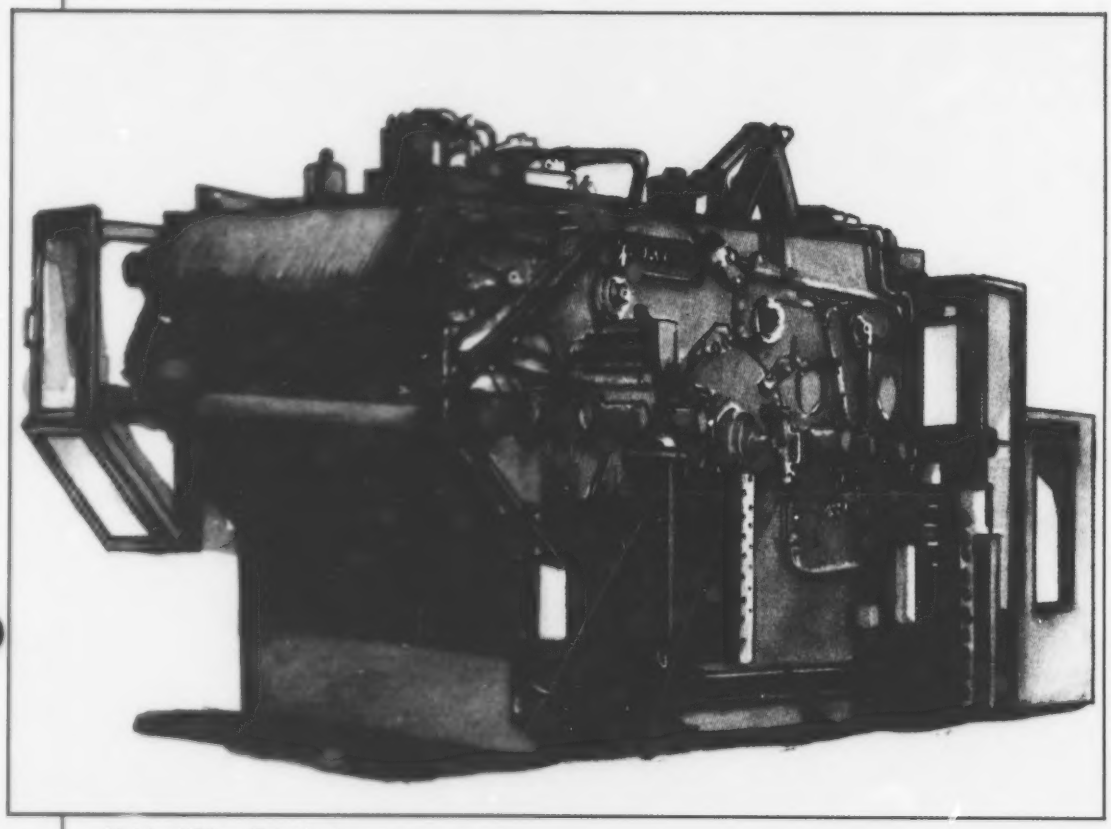
Designs encompass shifting stub arbors, shifting guided saws on splined arbors and fixed multi-saw gang edgers. Optimil has manufactured both manual and optimizing infeed for board edgers and cant gangs.

MANUFACTURER:

OPTIMIL MACHINERY INC.

8320 River Road
Delta, B.C. V4G 1B5
TEL: (604) 946-6911
FAX: (604) 946-5199
TELEX: 04-357822

MAINLAND EDGER



Mainland Edger. There is a Mainland edger for most circular sawing applications.

Mainland Manufacturing are specialists in circular sawing. Mainland has concentrated on design and manufacture of cutting stations for the forest industry, specifically in the log breakdown and lumber manufacturing areas.

Mainland edgers and guide systems are manufactured to precise tolerances with convenient access and long service life.

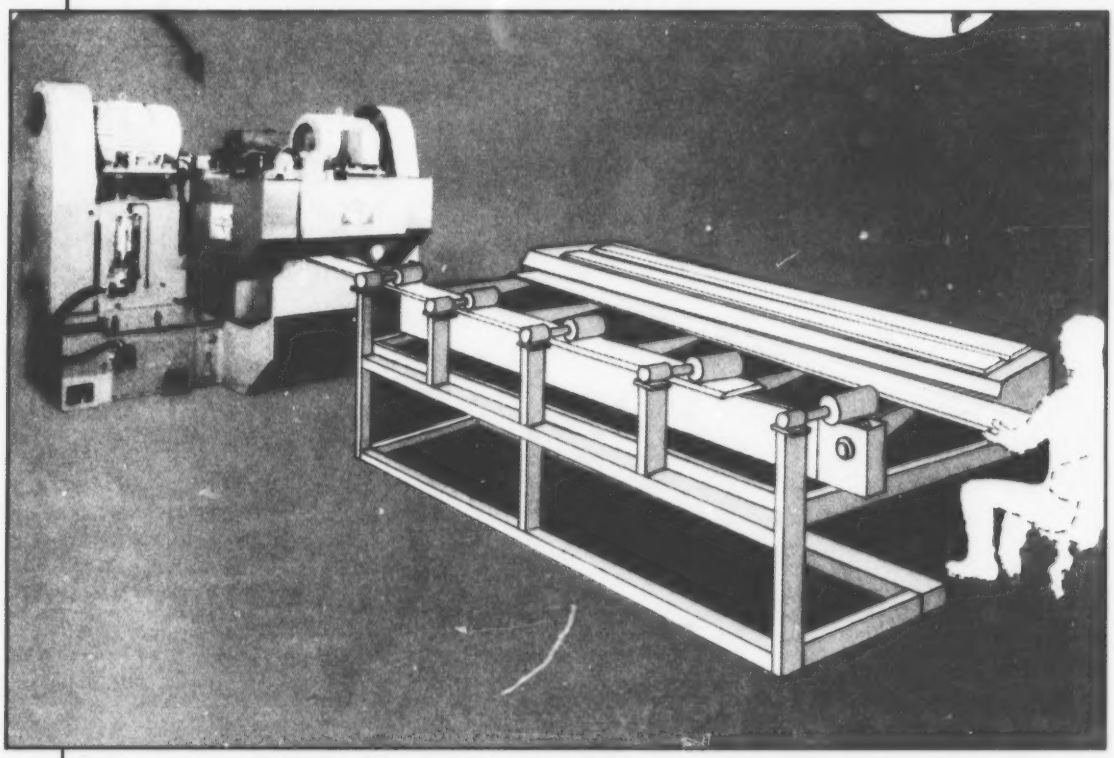
Particular Specifications

Available for various circular sawing applications, multiple gang, or shifting saws, and vertical arbor
Vertical and horizontal spline arbor models include:
Double arbor
Single arbor
Machines are available with saw guide systems for thin kerf saws and saw guide lubrication
Power assisted external saw change system on the vertical arbor models
Positioning systems
Feed systems in and out
Arbor and guide retrofits for existing equipment
Saw selection service

MANUFACTURER:

MAINLAND MANUFACTURING

15100 River Road
Richmond, B.C.
V6V 1L5
TEL: (604) 273-1455
FAX: (604) 276-0051



Swecan Chipper Edger
Model PCE3-122-35S.

Swecan line of products includes chipper canters with 2, 3 or 4 chipper heads; combination chipper canter/twin or quad band saws; single, twin and quad band edgers; 18 in., 26 in. and 30 in. ring type debarkers/spare parts; wide band saw blades/bent chipper knives.

Chipper edger model SCE 1616-35EF. Also available are Chipper Edger Model PCE3-122-358, Chipping Edger with Horizontal Top Slabbing Head and Chipping Edger with Horizontal Top Slabbing and Splitter Saw Section.

Particular Specifications

Model PCE3-122-35S

Base: Heavy duty fabricated base with automatic force feed lubrication of slide ways.

Carriages: Two carriages, one fixed, one movable supporting chipper heads horizontal & vertical adjustable anvils, drive motors and guards.

Chipper Heads: One stationary and one movable side chipper head model P each with 3 knife holders, 3 knives and one integrated circular saw depth of cut 3 1/2 in.

Infeed: Two horizontal bottom driven rolls, two horizontal top pressured driven rolls.

Outfeed: Two horizontal bottom driven rolls, two driven pressured top rolls.

Mechanical Specifications

Model PCE3-122-35S Chipper Edger

Heads: Two 44.7 kW (60 hp) 1800 r.p.m.

Feedworks: Two 3.7 kW (5 hp) 1800 r.p.m.

Setworks: One "Swecamatic" electronic-hydraulic to provide 10 settings for movable side head, with 5.6 kW (7.5 hp) hydraulic power unit.
Capacity: Designed to edge boards up to 10.2 cm (4 in) thick and 48.3 cm (19 in) wide.

Product Size: from 2.5 cm (1 in) to 10.2 cm (4 in) thickness up to 30.5 cm (12 in) width.
Chip Size: 1.9 cm (3/4 in) to 2.9 cm (1 1/8 in) on request

Feed Speed: up to 122 m/min (400 FPM)

Board Length Capacity: 1.8 (6 ft) to 7.9 m (26 ft)

Operational Specifications

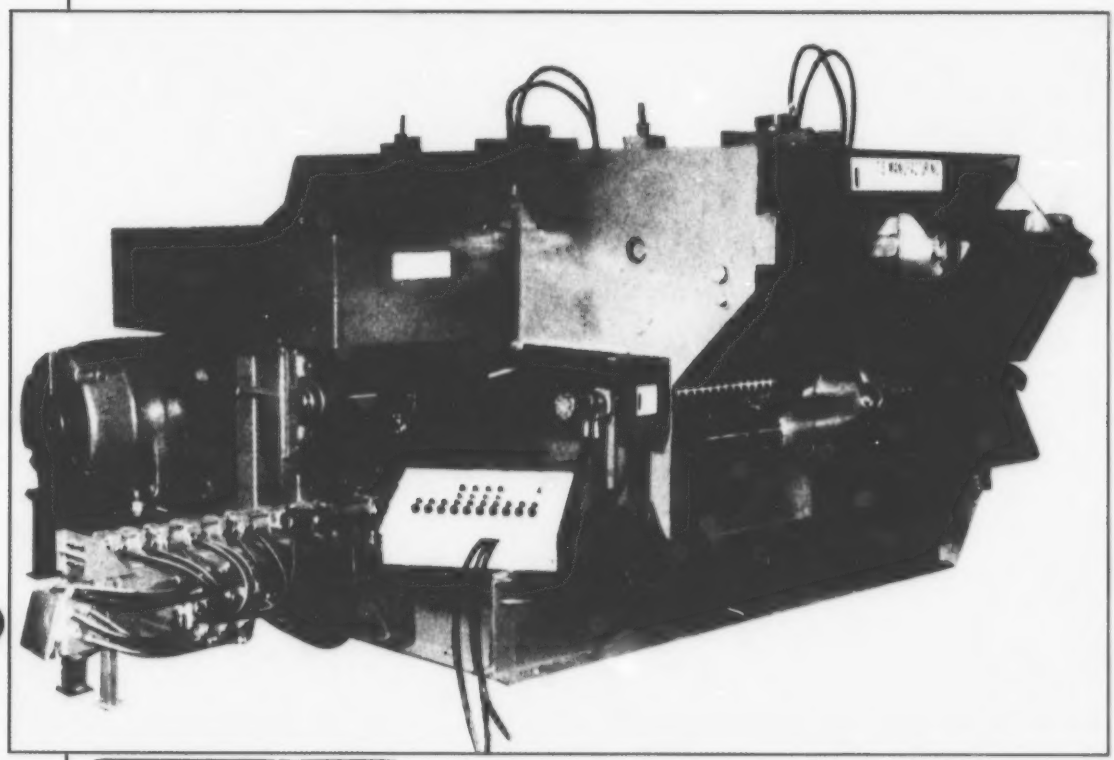
Several different models of chipper edger for larger cants and wider boards are available; also different types of infeed tables (manual position of boards or automatic with optimizer system).

MANUFACTURER:

SWECAN INTERNATIONAL LTD.

Lanoraie, Que.
J0K 1E0
TEL: (514) 887-2313
FAX: (514) 887-2174
TELEX: 05-25609

T.S. DOUBLE ARBOR EDGER



Shown is the 16.5 cm (6 1/2 in) by 137 (54 in) full combination double arbor edger.

T.S. Manufacturing designs and manufactures machinery at their Lindsay, Ontario plant for a wide range of mills throughout the world. They do everything from a single machine modification or rebuilding, to turnkey projects, including concept engineering, manufacturing and installation.

T.S. Manufacturing makes a full line of log handling and processing equipment, lumber handling and processing equipment, waste handling and processing equipment, complete sawmills, planning mills and wood room installations.

T.S. Arbor Edgers are available in full combinations, straight bull or double bull types, in 10.2 cm (4 in) to 30.5 cm (12 in) thickness, up to 168 cm (66 in) widths.

Particular and Mechanical Specifications

Side frame thickness cm (in)	2.5 cm (1 in) on 4 in. and 6 in. machines 2.85 cm (1 1/8 in) on 8 in. machines 3.18 cm (1 1/4 in) on 10 and 12 in. machines
Setworks	Standard air stack, optional hyd. servo Opt. manual shift, up to 3 movable saws
Arbor diameter cm (in)	10.64 (4 3/16) on 4 and 6 in. machines 11.28 (4 7/16) on 8 in. machine Available chromed and ground or splined
Feed kW (hp)	14.9 (20) hydraulic with var. speed Opt. electric 1 or 2 speeds 6 feed and 2 press rolls each side

Available as over arbor, under arbor, and pony edgers.

Operational Specifications

The externally adjustable top arbor helps to eliminate saw overlap while the machine is running.

Positive control of the cant is obtained by means of the feed systems. The standard machine rolls, or optional knurled and hard chromed or Coleman inserted rolls, are available, with positively controlled powered press rolls.

MANUFACTURER:

T.S. MANUFACTURING COMPANY

P.O. Box 487
55 Needham Street
Lindsay, Ont. K9V 4S5
TEL: (705) 324-6482
FAX: (705) 324-6482
TELEX: 06-962802

CAE EDGER OPTIMIZER

CAE Ahlstrom Edger Optimizer. The philosophy is "move the chip heads/saws to the board", do not move the board to the chip head/saws.

CAE are specialists in the manufacture of sawmill equipment.

The CAE/Ahlstrom North American edger optimizer utilizes longitudinal incline scanning cameras coupled with stepless, parallel-diagonal edging heads to provide optimum lumber recovery.

Particular Specifications

Capacity: The capacity depends greatly on the average length of the board as well as the infeed speed and setting time of the edger unit. The maximum capacity of the machine for various average board lengths with the noted speeds are as follows:

Average Length m (ft)	Pieces/min @ 152 m/min 500 (ft/min)	Pieces/min @ 183 m/min 600 (ft/min)
3.7 (12)	7.3 (24)	8.2 (27)
4.9 (16)	6.1 (20)	7.0 (23)
5.5 (18)	5.8 (19)	6.4 (21)

The distance between the last scanner and the chipper edger must vary depending on the infeed speed selected to allow for the necessary setting times.

Board Parameters: The minimum and maximum board lengths and thicknesses that will be able to be processed by the CAE/Ahlstrom Longitudinal Optimizer are as follows:

Description	Specification Max.	Min.
Thickness of boards mm (in)	51 (2)	19 (3/4)
Width of board (finished) mm (in)	510 (20)	76 (3)
Width of board to be handled by equipment mm (in)	610 (24)	76 (3)
Length of boards m (ft)	7.3 (24)	2.4 (8)

Options

Saw edger with twin guideways for stable compact design.

Split saw mounted behind the main cutting machine with digital computer control.

Other options include post automatic trimming and sorting, surface grading and grade marking.

Operational Specifications

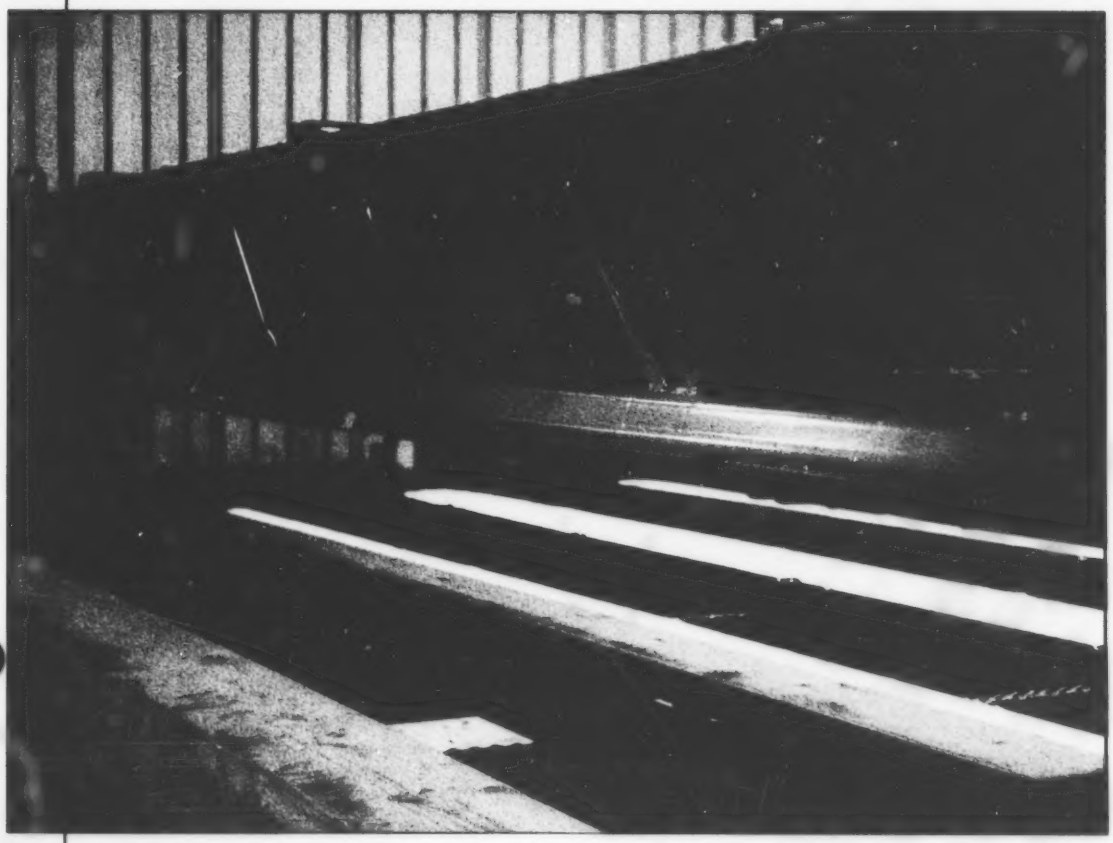
The board is centered in the infeed line direction with two of the four centering arm pairs. Then the board is pressed against the continuously running infeed chain, accelerated, and the scanning begins. The width profile of the board is measured by three cameras. Data from camera 1 are compared with data from camera 2, and data from 2, with data from camera 3. The computer analyzes the best possible edging method, and sets the chipping heads/saw accordingly. In addition, the computer reporting system is an effective tool for production planning, manufacturing and sales. Board data are accumulated, and can be analyzed and printed as reports.

MANUFACTURER:

CAE MACHINERY LTD.

3550 Lougheed Hwy.
Vancouver, B.C.
V5M 2A3
TEL: (604) 299-3431
FAX: (604) 299-1310
TELEX: 04-53498

SOFTAC EDGER OPTIMIZER SYSTEM



Softac Edger Optimizer features a non-contact, solid state laser scanner, interfaced with a multi-processor computer system.

Softac optimizer systems are supplied for complete new sawmills, or as retrofits for existing sawmills.

Lloyd/Softac are manufacturers of computerized optimizing systems, hydraulic setworks, edgers and trimmers, log carriage drives, process controls, special packaged drive systems.

Particular Specifications

The Softac Scanner system provides 10.2 cm (4 in) scan density, giving thickness profiles across the board width every 10.2 cm (4 in) along the board length.

The System reads thickness profiles 500 times per second, corresponding to a max. operating speed of up to 60 lugs/min. for 76 cm (30 in) lug spacing on scanner transfer.

The Personal Computer System allows easy change of target lumber sizes, wane parameters and lumber price tables, thereby responding quickly to changing market conditions.

Complete mechanical package, setworks and hydraulic power units are available. Also a single scanner, dual edger feeding systems are available.

Operational Specifications

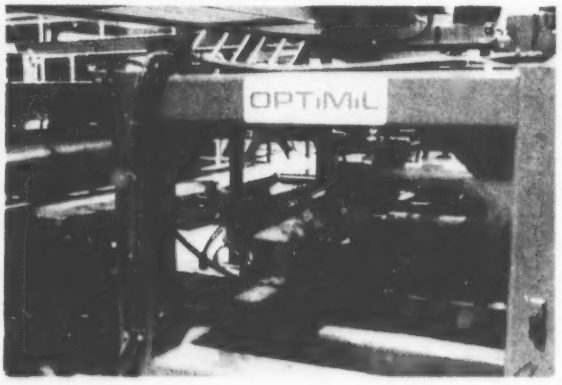
The Softac edger optimizer system provides true-shape scanning for increased efficiency, increased productivity, increased recovery, and increased profitability.

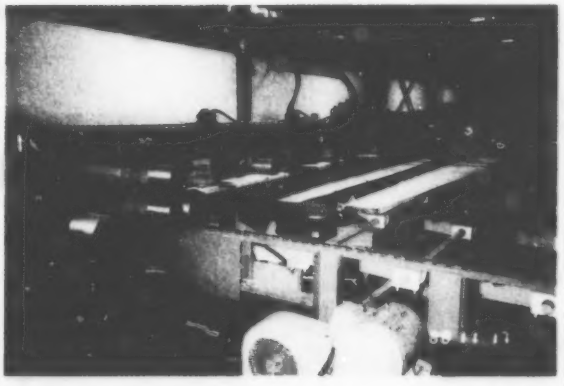
All Softac systems utilize sub-systems that can be installed individually, or in combination with existing mill equipment of other manufacturers. Systems are expandable to meet future requirements.

MANUFACTURER:

LLOYD (SOFTAC) LTD.

3046 Westwood St.
Port Coquitlam, B.C.
V3C 3L7
TEL: (604) 464-8505
FAX: (604) 464-2242
TELEX: 04-353563





Top photo shows the cueing station positioning pins and Optimil's high speed charger system. The bottom photo shows the charger picking up the piece from the positioning pin. This system is capable of processing up to 40 pieces per minute on 2.4 m (8 ft) length material.

The Optimil product line consists of Canter feed systems, Canters, Close coupled circular saw sections, Circular gang edgers, Edger feed systems, Circular saw board edgers, Edge chippers, and Circular resaws.

Particular Specifications

Height	N/A
Overall Length	Depending on application
Maximum Width	Depending on application
Bedline	106.7 cm (42 in)
Total Weight	Depending on application

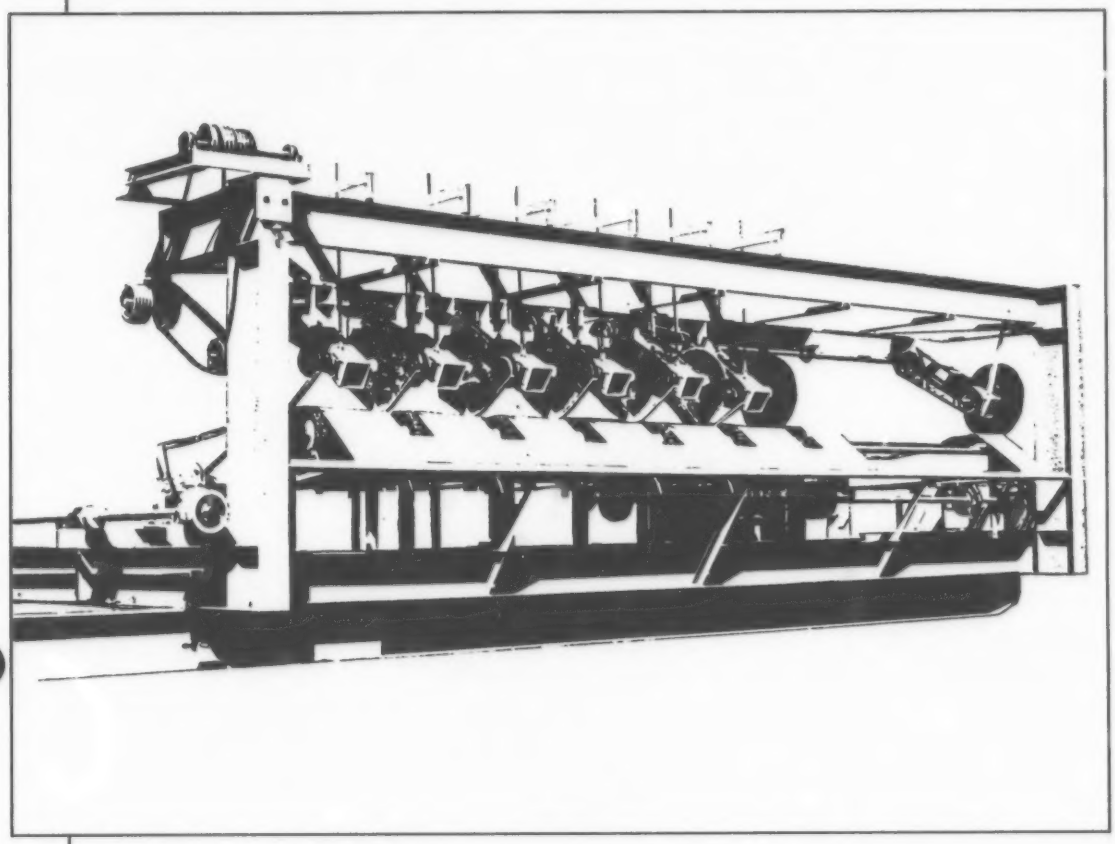
Operational Specifications

Optimil provides Edger Optimizer Systems. These systems are complete including board unscramblers, even ending units, scanner transfers, cueing transfers, optimizing infeeds, edgers, edger tailing systems and outfeeds.

MANUFACTURER:

OPTIMIL MACHINERY INC.

8320 River Road
Delta, B.C. V4G 1B5
TEL: (604) 946-6911
FAX: (604) 946-5199
TELEX: 04-357822



The Almac multiple saw trimmer constructed with a sturdy steel base and frame.

Almac (formerly Coutts Machinery) manufactures a sawmilling line from complete sawmills to log handling, log breakdown and lumber handling equipment.

There are four basic models of Trim Saws available.

Particular Specifications

The standard two-saw trimmer features keyed chain drive for board alignment and mounted with a unitized steel or wood base. It is supplied in 3.7 m (12 ft) or 4.9 m (16 ft) widths.

The multiple saw trimmer is applied for production line work, where many boards of the same length must be cut. It speeds production of lumber by permitting the sawing of two pieces at one time. Cutting distances are easily changed. Lumber guide chains are keyed to run evenly, assuring a 90 deg. saw cut. Separate electric motors power each of the saws.

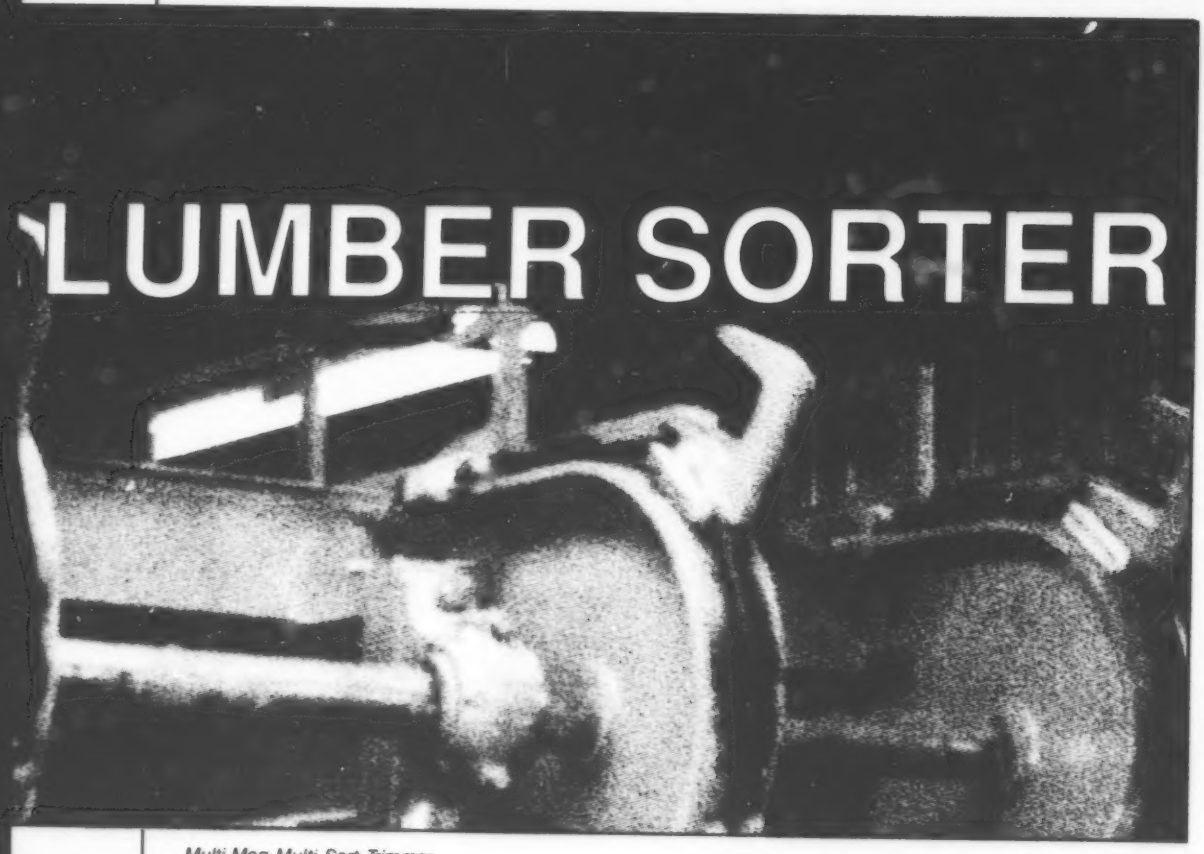
The multiple saw trimmer has all saws powered by V-belts. Boards are conveyed to saws on heavy chain, with the sprockets keyed for board alignment. This is a unit for large production of trimmed boards.

MANUFACTURER:

ALMAC MACHINE WORKS LTD.

9539 - 56th Ave.
Edmonton, Alta.
T6E 0B2
TEL: (403) 434-3402
FAX: (403) 437-3507

LUMBER SORTER



Multi-Meg Multi Sort Trimmer.

PRICE: Products are customized to the clients personal needs. prices (1988) range from $15.000.00 to $30.000.00. subject to change.

Particular Specifications

Height cm (in)	35 (13 25/32)
Width (max) cm (in)	60 (25 5/8)
Depth m (ft)	38.2 (15 1/32)

Operational Specifications

The Multi-Meg Multi-Sort Trimmer can measure plank dimensions and modify the plank lengths.

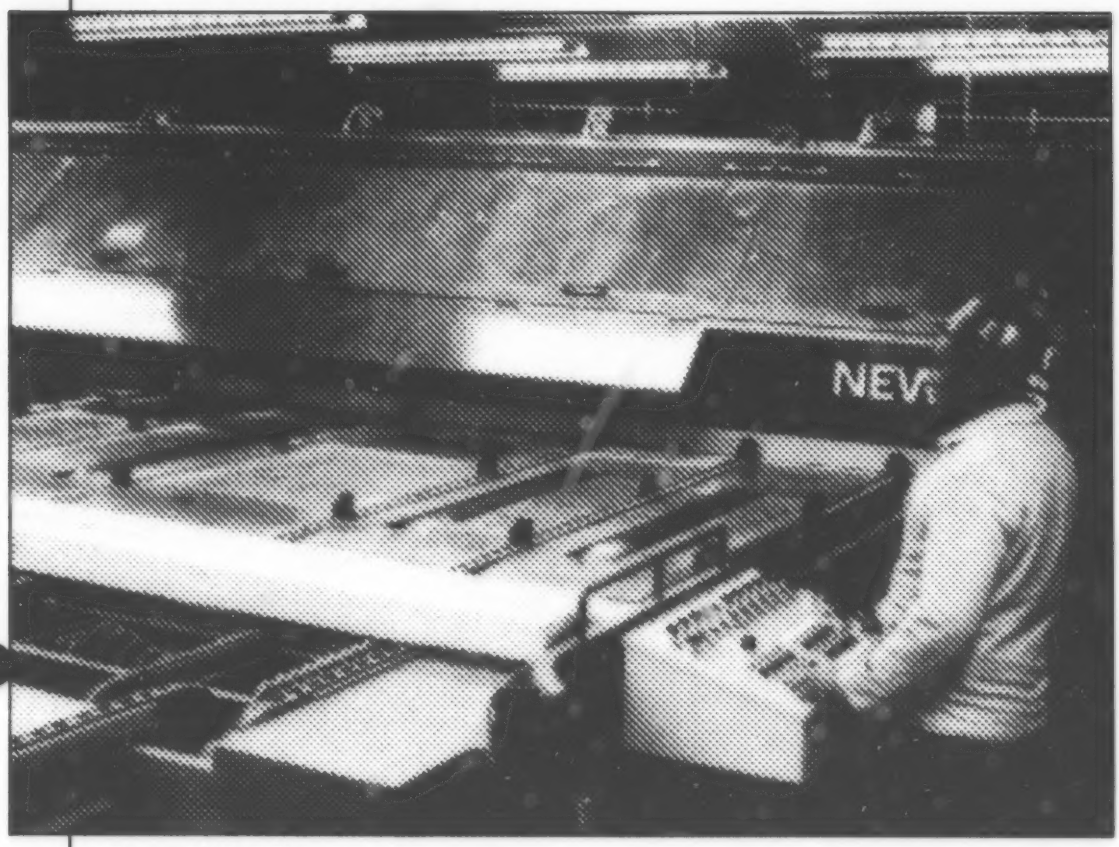
The system controls the sawing machine functions. It gives orders to the saws which can cut the cull sections at the plank extremities. The operator feeds the computer all operations to be undertaken on the saws, gates and the stampers.

MANUFACTURER:

MULTI-MEG ELECTRONICS LTD.

3675 Grand Allee
Boisbriand, Que.
J7H 1H5
TEL: (514) 435-2121
FAX: (514) 430-3407
TELEX: 05-25134

NEWNES MULTISAW TRIMMER



Newnes Multisaw Trimmer.

Newnes Machinery develops and produces products for the forest mill industry. Among the equipment being used by mills in Canada and the U.S. are Newtronic Lug-Loaders; Automatic Lumber-Stackers; Sorters and Stick Placers; Trimmers; Strip Saws; Tilt Hoists; Package End Presses; Package Doublers; Transfers; Roll Cases; and Auto Hopper Fillers.

A subsidiary, Western Industrial Programming, designs and produces control systems for lumber sorters, stackers, trimmers, edgers and conveying systems. Another subsidiary, Northern Plastics processes and fabricates UHMW and Polyurethane products used in mill operations.

Particular Specifications

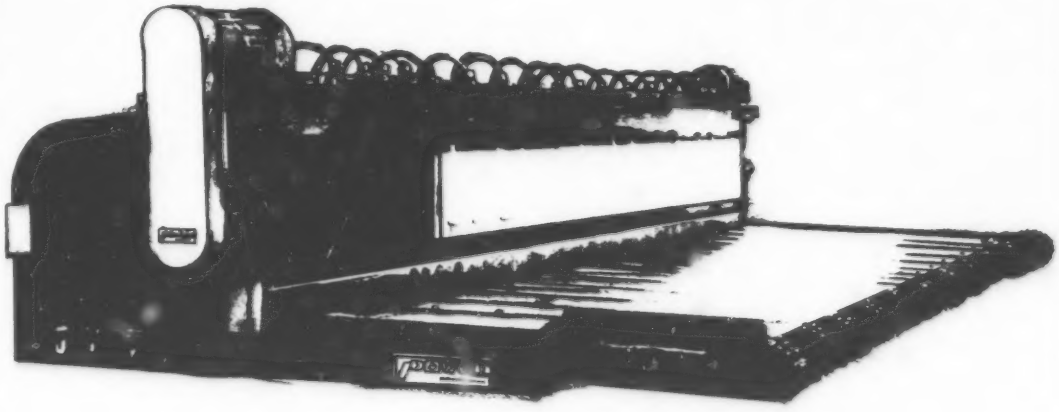
Rigid frame construction
Flexible saw spacings, 1 ft. or metric spacing available as standard design
Air lift for high speed operation
Rigid, lightweight saw ladders
Quick belt change feature is standard
Pre-wired and pre-plumbed in our shop
Optional sawdust pick-up system
Optional dual entry/exit flaps for noise containment

MANUFACTURER:

NEWNES MACHINE LTD.

P.O. Box 8
Salmon Arm, B.C.
V0E 2T0
TEL: (604) 832-7116
FAX: (604) 832-9810
TELEX: 048-8380

MAINLAND PRECISION TRIMMER



Mainland Precision Trimmer used in sawmill and planer mill end trim applications.

Mainland Manufacturing are specialists in circular sawing. Mainland has concentrated on design and manufacture of cutting stations for the forest industry, specifically in the log breakdown and lumber manufacturing areas.

Mainland precision trimmers are used in sawmill and planer mill installations.

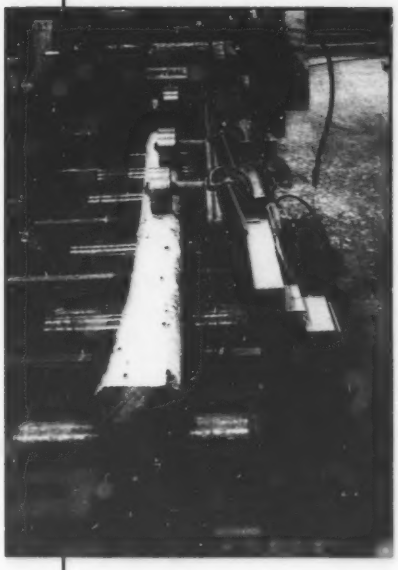
Particular Specifications

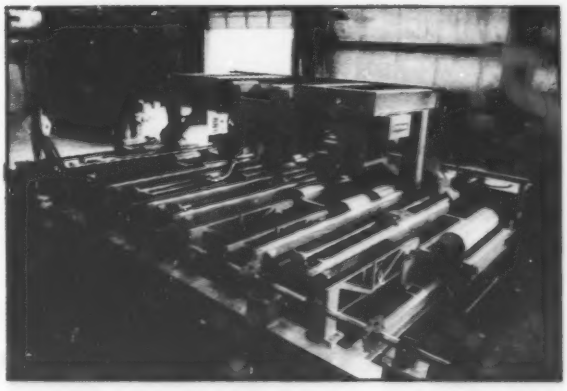
Air lift saw ladders specially constructed for 100 lugs per minute feed rate
Line shaft drive
Heavy duty feed chains
Precision saw ladder settings
Noise abatement covers
Effective end rolls

MANUFACTURER:

MAINLAND MANUFACTURING

15100 River Road
Richmond, B.C.
V6V 1L5
TEL: (604) 273-1455
FAX: (604) 276-0051





Left photo shows the cant optimizer to handle 25.4 cm (10 in) x 122 cm (48 in) cants. Table is full automated. Right photo, the manual cant optimizer uses laser lines for positioning a sharp chain to feed the cant. The cant is transported to the positioning pins via jump chains, which retract below the bedline.

The Optimil product line consists of Canter feed systems, Canters, Close coupled circular saw sections, Circular gang edgers, Edger feed systems, Circular saw board edgers, Edge chippers, and Circular resaws.

Physical Specifications

Height	Depending on application
Overall Length	Depending on application
Maximum Width	Depending on application
Bedline	106.7 cm (42 in)
Total Weight	Depending on application

Operational Specifications

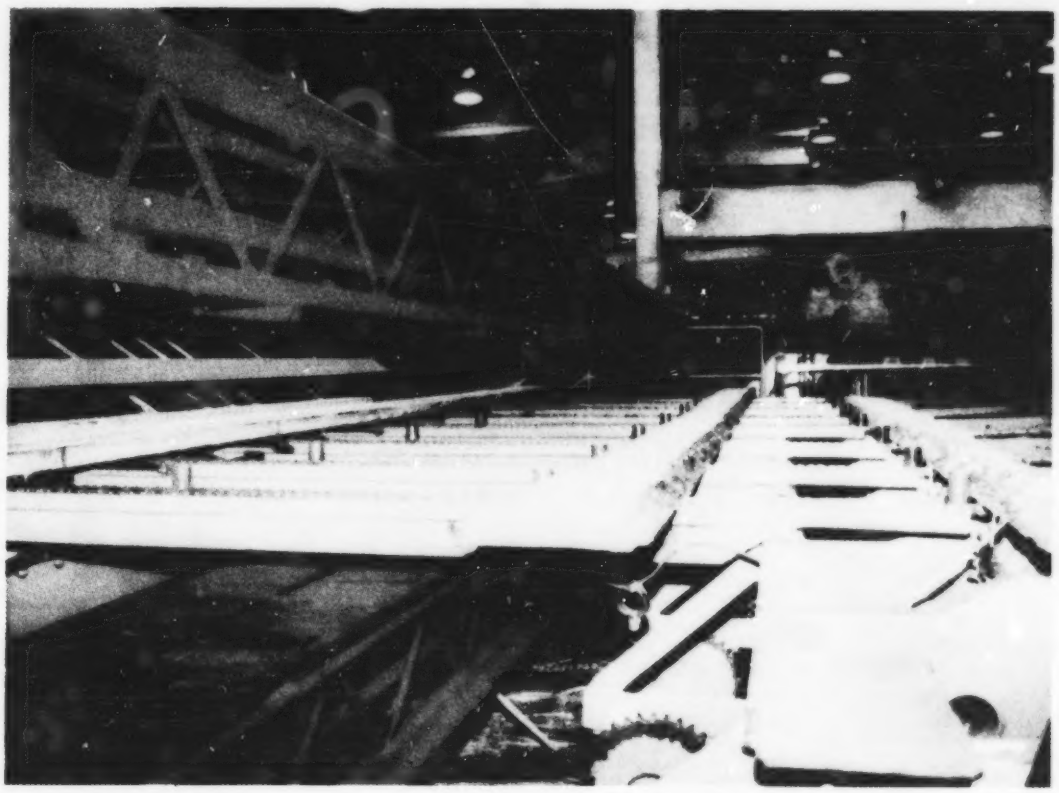
The optimizing tables are tailored to meet the customers needs. The manufacturer works closely with each customer to ensure the system will fit their specific application.

MANUFACTURER

OPTIMIL MACHINERY INC.

8320 River Road
Delta, B.C. V4G 1B5
TEL: (604) 946-6911
FAX: (604) 946-5199
TELEX: 04-357822

SOFTAC TRIMMER OPTIMIZER SYSTEM



Softac Trimmer Optimizer System provides true-shape laser scanning for optimum trimming, with increased efficiency, productivity, recovery and profitability.

Softac optimizer systems are supplied for complete new sawmills, or as retrofits for existing sawmills.

Lloyd/Softac are manufacturers of computerized optimizing systems, hydraulic setworks, edgers and trimmers, log carriage drives, process controls, special packaged drive systems.

Specifications

The Softac laser trimmer optimizer accurately measures thickness profile, width and length immediately before the trimmer, and determines optimum trim based on programmed values. It features a solid state laser scanner, interfaced with a multiprocessor computer system.

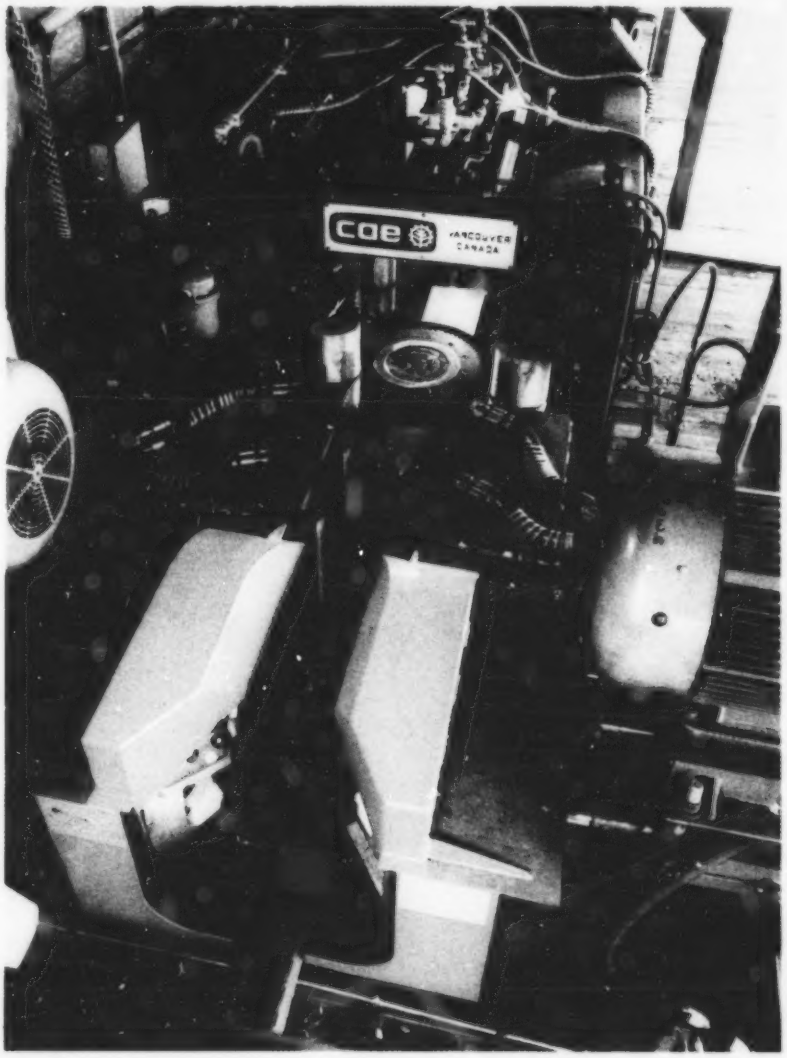
The scanner system provides a 2.5 cm (1 in) scan density; which is a true thickness profile across the board width, every inch along the board length. This allows optimum recovery and cosmetic trimming.

MANUFACTURER:

LLOYD (SOFTAC) LTD.

3046 Westwood Street
Port Coquitlam, B.C.
V3C 3L7
TEL: (604) 464-8505
FAX: (604) 464-2242
TELEX: 04-353563

CAE CHIPPER CANTER



CAE Model PH700 Heavy Duty Chipper Canter. Top view of CAE three-sided patented Sure Track Sharp Chain Canter System.

CAE are specialists in the manufacture of sawmilling equipment.

CAE manufactures the heavy duty chipper canter, model PH700 designed for high speed sawing lines.

Particular Specifications

The heavy duty chipper canter model PH700 is designed for high speed sawing lines to meet the highest requirements of surface finish and chip quality. It can be attached to circular saws, bandmills at both primary and secondary stages or used by itself in canter lines or head-rig slabbers.

It is available in a saw version which gives an excellent surface finish with no knot tear out, applicable to most North American woods, and a cutting disc version for very dense wood applications when the best possible surface finish is not a requirement.

Log Diam. mm (in)	102-711	(4-28)
Feed Speeds m/min (fpm)	Up to 122	(400)
Piece count	Up to 12	
No. of Knives	3 or 6	
Chip Length mm (in)	16-25	(5/8-1)
Max. Chip Depth mm (in)	152	(6)

Operational Specifications

The chipper plate knives give very good chip quality, and provide for easy maintenance. Available in two or three head configurations. For reducer bandmill, headrig slabber and chipper canter applications.

MANUFACTURER:

CAE MACHINERY LTD.

3550 Lougheed Hwy.
Vancouver, B.C.
V5M 2A3
TEL: (604) 299-3431
FAX: (604) 299-1310
TELEX: 04-53498

Optimil Small Log Canter provides accurate guiding and reduces back cutting.

Optimil product line consists of Canter feed systems, Canters, Close coupled circular saw sections, Circular gang edgers, Edger feed systems, Circular saw board edgers, Edge chippers, and Circular resaws.

Particular Specifications

Max. log diameter cm (in)	38 (15)
Max. log diameter cm (in)	8.9 (3 1/2)
Max. log length m (ft)	6.1 (20)
Max. log length m (ft)	2.4 (8)
Speed m/min (f.p.m.)	91.4 (300)

Single, two or multi-speed hydraulic or electric drives

Operational Specifications

The Optimil small log canter features a unique, high accuracy guided chipper head to provide accurately sawn timber. It combines chipping and sawing with a precision transport system to increase recovery.

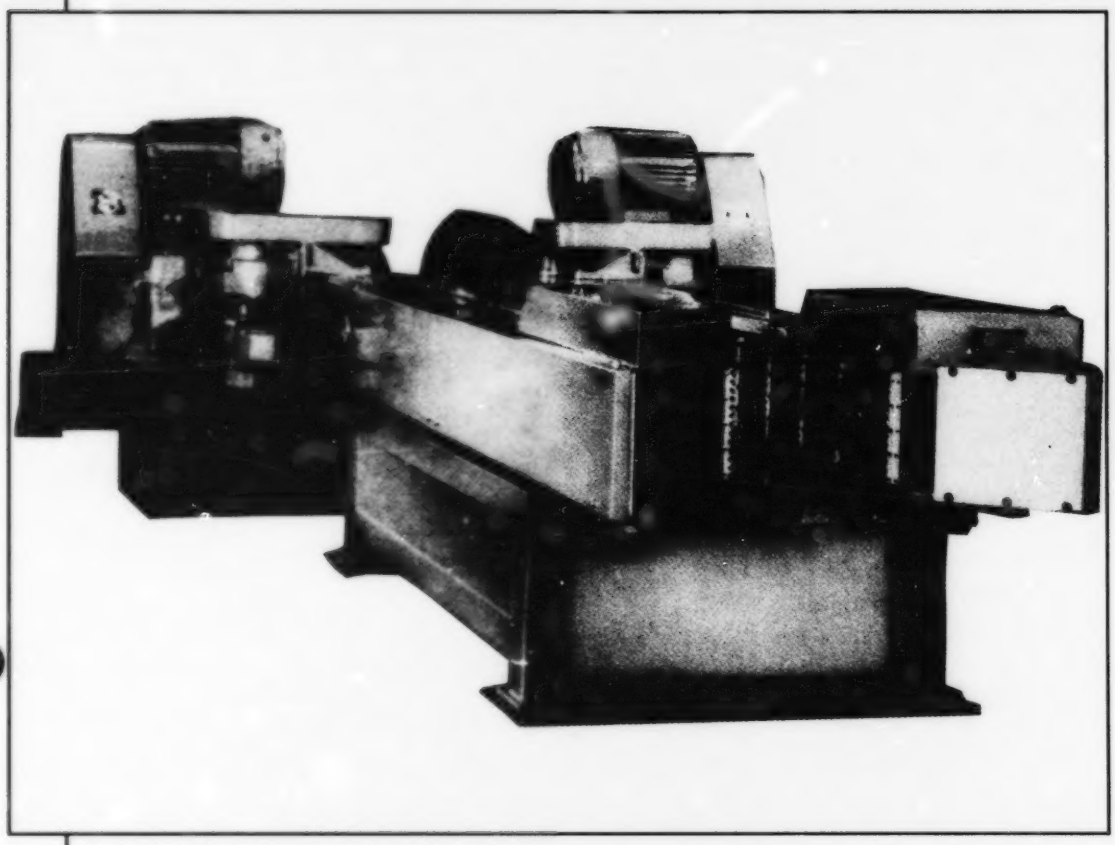
The machine is suitable for cants, timbers or sawn lumber. It can be supplied with or without saws, fixed circular saws, shifting circular saws, bandsaws, and with directly connected or downstream vertical saw sections.

MANUFACTURER:

OPTIMIL MACHINERY INC.

8320 River Road
Delta, B.C. V4G 1B5
TEL: (604) 946-6911
FAX: (604) 946-5199
TELEX: 04-357822

SWECAN CHIPPER CANTER



Swecan Chipper Canter
Model SCC1620-35EF

Swecan line of products includes chipper canters with 2, 3 or 4 chipper heads; combination chipper canter/twin or quad band saws; single, twin and quad band edgers; 18 in., 26 in. and 30 in. ring type debarkers/spare parts; wide band saw blades/bent chipper knives.

Chipper canter model SCC 1620-35EF. Also available Chipper Canter/Quad Band Combination, Chipper Canter-Edger/Quad Band Combination.

Particular Specifications

Base: Heavy duty fabricated steel base with automatic feed lubrication of slide ways

Carriages: Two travelling carriages driven hydraulically with two vertical adjustable anvils

Chipper Heads: Model S with 8 knife holders and guards

Infeed: Steel frame with auto self-centering belt type infeed mechanism

Outfeed: Four driven hard chrome faced rolls (two knurled)

Setworks: "Swecamatic", electronic-hydraulic, providing ten or more symmetrical settings

Mechanical Specifications

Drives: Chipper heads, two 55.9 kW (75 hp) motors
Infeed, two 5.6 kW (7.5 hp) motors
Outfeed, two 2.2 kW (3 hp) motors
Hydraulic unit, one 7.5 kW (10 hp) motor

Capacity: Feed speed, 61 to 110 MPM (200 to 360 FPM)
Log diameter: 7.6 cm (3 in) to 51 cm (20 in)
Length of Logs: 1.8 m (6 ft) to 7.3 m (24 ft)
Length of Chips: 1.6 cm (5/8 in) to 2.9 cm (1 1/8 in)

Operational Specifications

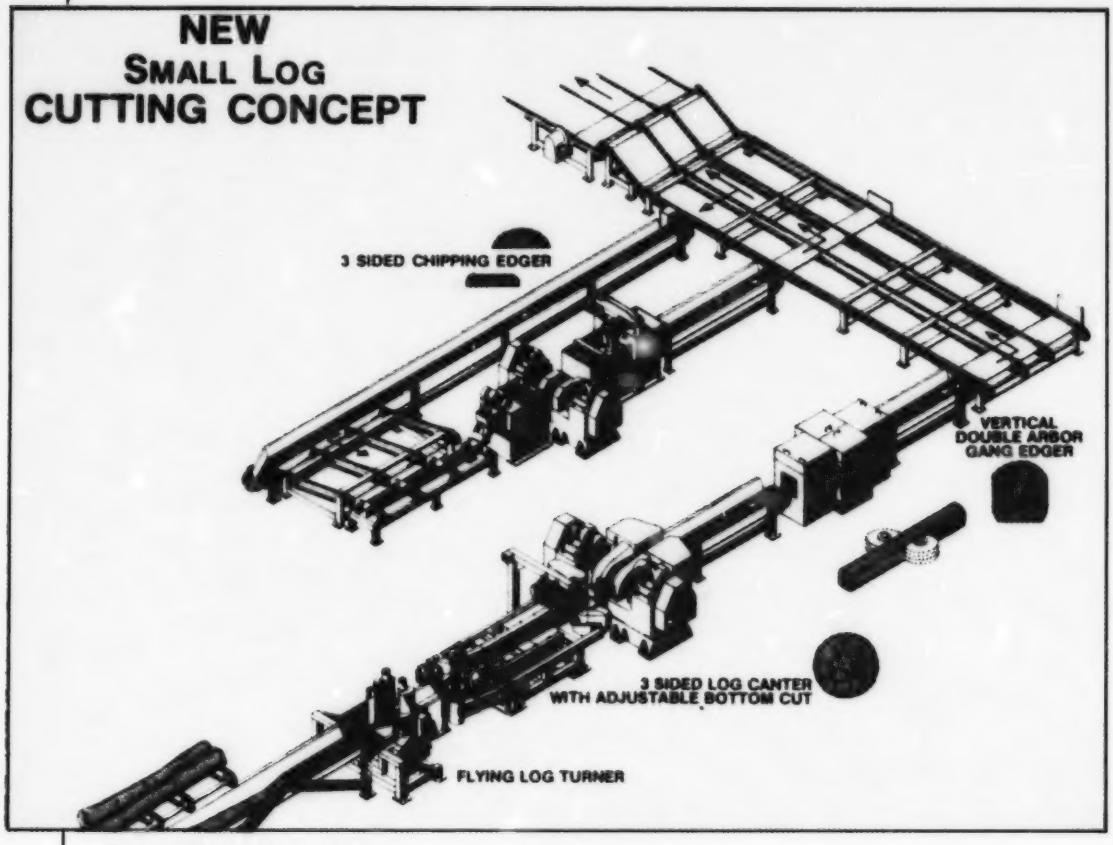
Side loading infeed with automatic centering is available.

MANUFACTURER:

SWECAN INTERNATIONAL LTD.

Lanoraie, Que.
J0K 1E0
TEL: (514) 887-2313
FAX: (514) 887-2174
TELEX: 05-25609

SWECAN 3 SIDED CHIPPER CANTER



Swecan 3 Sided Chipper Canter, Circular Scrag in new small log cutting concept.

Swecan line of products includes chipper canters with 2, 3 or 4 chipper heads; combination chipper canter/twin or quad band saws; single, twin and quad band edgers; 18 in., 26 in. and 30 in. ring type debarkers/spare parts; wide band saw blades/bent chipper knives.

Swecan 3 Sided Chipper Canter with adjustable bottom cut in models SSCC 3 and SRCC 3.

Particular Specifications

Model	SSCC 3	SRCC 3
	Chipper heads: Side heads with 8 knives for 15.2 cm (6 in) cut. Bottom head with 4 knives for 8.9 cm (3½ in) cut.	Chipper heads: Side heads with 6 knives for 8.9 cm (3½ in) cut. Bottom head with 4 knives for 8.9 cm (3½ in) cut.
Capacity:		
Feed speed	107 m (350 FPM) max.	91 m (300 FPM) max.
Log diam. cm (in)	7.6 (3) to 50.8 (20)	7.6 (3) to 30.5 (12)
Log length m (ft)	2.4 (8) to 4.8 (16)	2.4 (8) to 4.8 (16)
Chips cm (in)	5.1 (2) max.	5.1 (2) max.
Chips cm (in)	1.6 (5/8) to 2.9 (1 1/8)	
Drives:		
Side heads —	Two 73.5 kW (100 hp) — 1800 rpm	Two 55.1 kW (75 hp) — 1800 rpm
Bottom head —	One 36.8 kW (50 hp) — 1200 rpm	One 36.8 kW (50 hp) — 1200 rpm

Operational Specifications

The chipper canters are designed to convert logs from 4 in. to 26 in. butt diameter, 48 in. pulpwood to 24 foot lengths into two, three or four faced cants with rounded edges or not according to the operator's decision. The cants are then conveyed to the different machines for further breakdown. Different model canters also available close coupled to twin, quad band saws, or circular gang edgers.

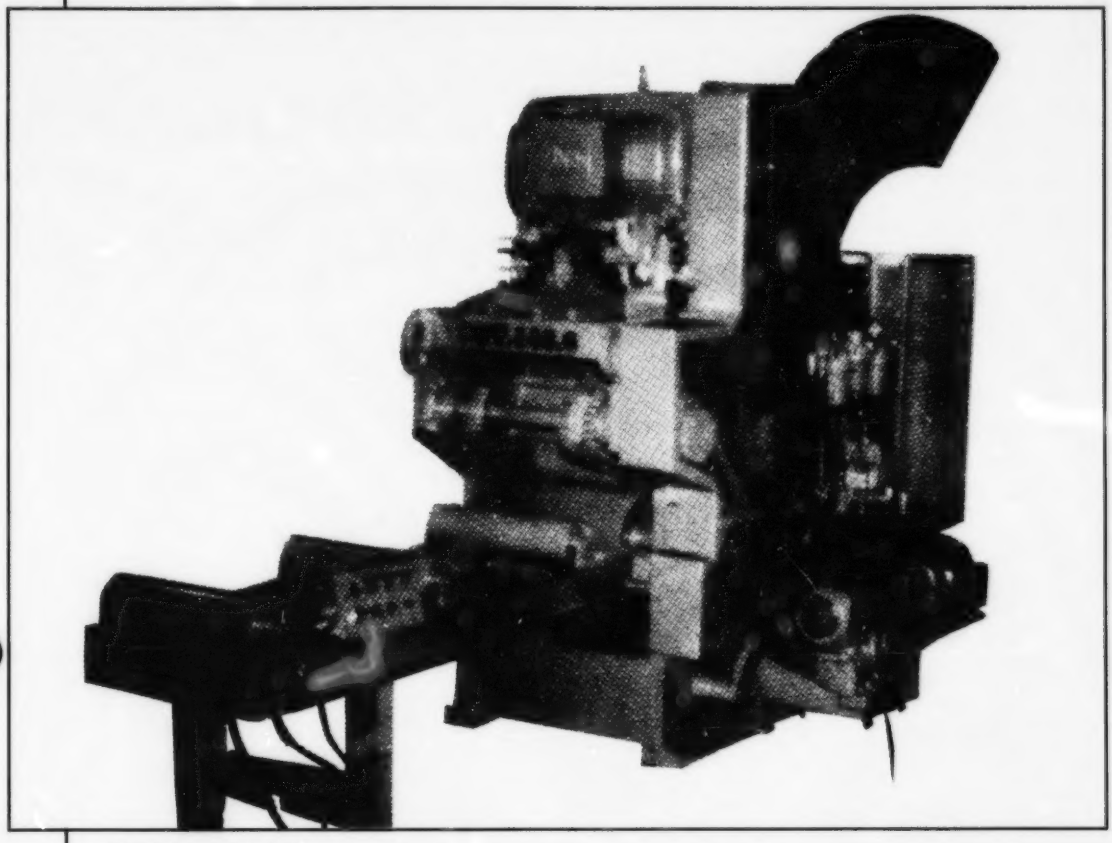
With feed rates of 180 to 400 ft. per minute the canters process small logs economically.

MANUFACTURER:

SWECAN INTERNATIONAL LTD.

Lanorale, Que.
J0K 1E0
TEL: (514) 887-2313
FAX: (514) 887-2174
TELEX: 05-25509

COMACT SLAB PROCESSOR



Comact model 142 slab processor, reduces slabs into chips.

Comact are specialists in fabricating sawmilling equipment.

In the debarker line, the Company manufactures the mode CO-T 820 ring type log debarker, models CO-T 820B, and CO-T 826 debarkers.

In the manufacture of slab processing machines, the Company makes model 142.

Particular Specifications

Slab processing width capacity cm (in)	30.5 (12)
Feed rolls diam. cm (in)	26.7 (10.5)
Feed rolls motor kW (hp)	5.6 (7.5)
Diam. of 6 segment chip heads cm (in)	35.6 (14)
Pneumatic setwork	3 position
Cutter head, kW (hp)	74.6 (100)
Feed speed m/min (fpm)	107 (350)

Operational Specifications

This machine will replace a resaw, and will do the job faster. It is installed in front of any conventional edger to process slabs into chips.

MANUFACTURER:

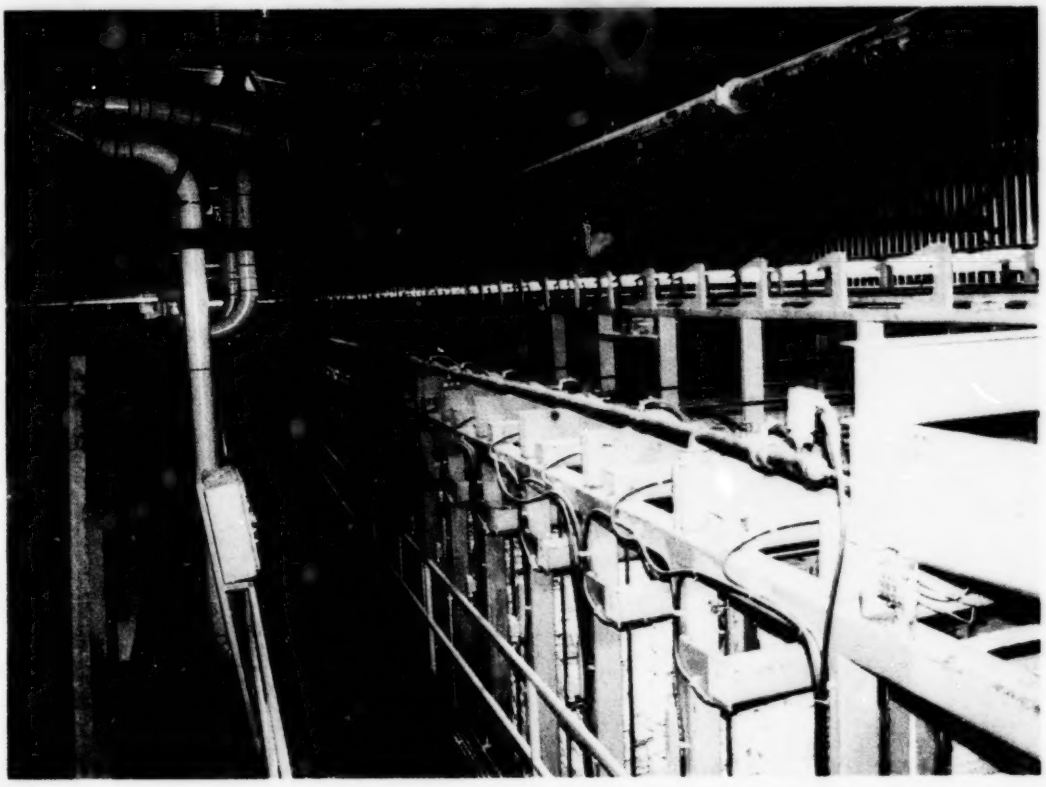
COMACT INC.

4000 40e rue
St-Georges, Que.
G5Y 5K6
TEL: (418) 228-8911
FAX: (418) 228-7466
TELEX: 05-833510

LUMBER HANDLING

Lumber Sorters
Lumber Dryers
Planer and Finishing Equipment

CANMEC AUTO LUMBER SORTER



Canmec Auto Filing System

Canmec designs and manufactures machinery for the pulpmill and sawmill industries. Canmec manufactures a line of log, lumber and chip handling equipment.

General Specifications

The products are customized to the clients personal needs.

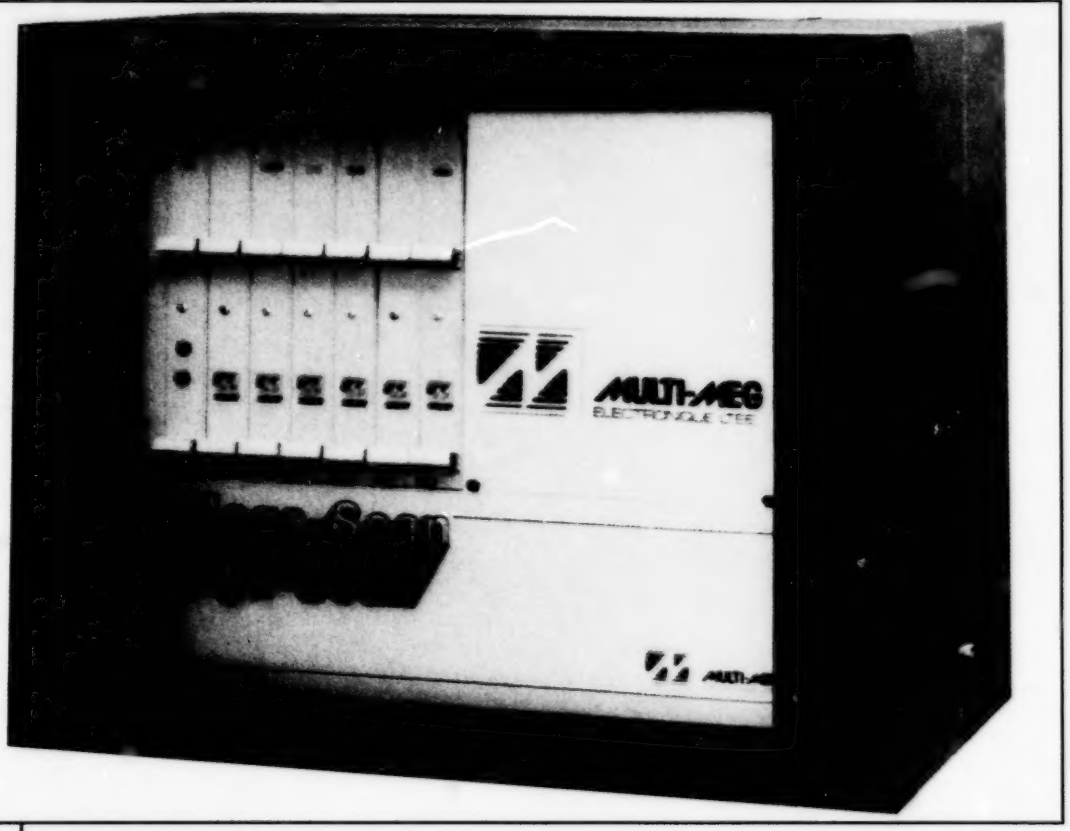
The Canmec Auto Filer is designed to automate sorting in the sawmill process.

MANUFACTURER:

CANMEC INC.

1750 La Grande
Chicoutimi, Que.
G7H 5B3
TEL: (418) 543-6161
FAX: (418) 543-5564

MEGA-SCAN LUMBER SORTER



The Mega-Scan Lumber Sorter is designed to measure lumber, and automate sorting in the sawmill process.

The Lumber Sorter includes: 1 measurement system, 1 Mega-Scan cabinet, 1 Modular Optomux interface cabinet, 1 Computer (IBM PC or compatible).

PRICE: The products are customized to the clients personal needs, the approximate price product range is $25,000.00 to $70,000.00.

Physical Dimensions

Height cm (in)	35 (13 25/32)
Width (max) cm (in)	60 (25 5/8)
Depth	38.2 (15 1/32)

Mechanical Specifications

Maximum speed	150 boards/min
Thickness precision cm (in)	7 (1/16)
Width precision cm (in)	7 (1/16)
Number of bins	up to 200
Number of grades	4
Choice of classification	fixed bins alternate bins automatic bin selection recirculation
Options	operator video display digital display of production

Operational Specifications

The Multi-Meg bin sorter, sorts pieces of wood according to thickness, length and width, and then classifies them into the appropriate bin.

The bin sorter also generates production reports. Sorting programming is done on an IBM-PC which can be connected to the Multi-Meg network.

MANUFACTURER:

MULTI-MEG ELECTRONICS LTD.

3675 Grand Allee
Boisbriand, Que.
J7H 1H5
TEL: (514) 453-2121
FAX: (514) 430-3407
TELEX: 05-25134

WESTERN INDUSTRIAL LUMBER SORTER

The W.I.P. Multi-Saw Trimmer Controls

Western Industrial, a subsidiary of Newnes Machine Ltd. designs and produces control systems for lumber sorters, stackers, trimmers, edgers and conveying systems. From simple relay, to highly automated total mill control are WIP systems possibilities.

Moisture sorting, Machine Vision, Multi-saw Trimmer Controls and Alphanumeric Displays.

Particular Specifications

Multi-Saw Trimmer Controls feature:

- Near end/far end trim control or individual saw control
- No limit to total board length or trim length
- Slash to remove reject material from lumber flow
- Reman or reject material to divert specified material to gate or belt
- Autotrim to longest even length in 2 foot increments
- Moving fence for variable position lumber line
- Grade tracking to operate print wheels or marking system
- Trimming pulse generated to operate lug loader
- Drive control for trim table, infeed table, etc.
- Operation of gates or tray system on outfeed section
- Trimmer console available if required
- Available for new installations or retrofits to existing equipment
- Interface to trimmer optimizer system

MANUFACTURER:

WESTERN INDUSTRIAL PROGRAMMING

P.O. Box 2044
Salmon Arm, B.C.
V0E 2T0
TEL: (604) 832-9322

EXCO HIGHSPEED STUD LUMBER STACKER

Exco Lumber Stacker, very high speed automatic stacking of trimmed lumber.

Exco Industries product line consists of log handling, lumber handling, planing/finishing machinery. The Company also builds jointly with Locomo of Finland, the Exco-Locomo cone felling saw.

All sawmill equipment is custom built to customers specifications, therefore dimensions can vary.

PRICE: Approx. $55,000. F.O.B. 100 Mile House, B.C. 1989.

Particular Specifications

Height m (ft)	3 (10)
Overall length m (ft)	4.3 (14)
Maximum width m (ft)	3.7 (12)
Total weight kg (lb)	4 536 (10 000)

Mechanical Specifications

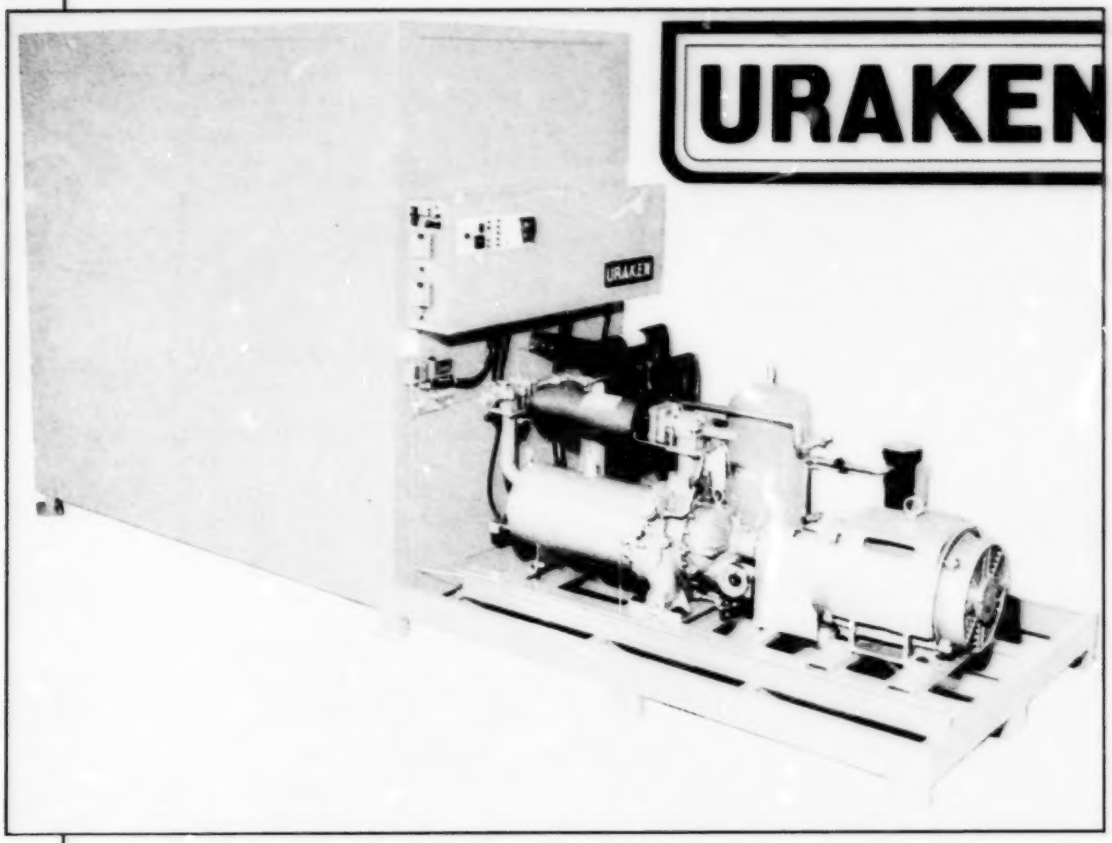
Powered: Electric/hydraulic

MANUFACTURER:

EXCO INDUSTRIES INC.

P.O. Box 790
100 Mile House, B.C.
V0K 2E0
TEL: (604) 395-4044
FAX: (604) 395-3389

URAKEN DEHUMIDIFICATION LUMBER DRYER



Uraken Model LRS-50 dehumidification lumber dryer, totally electric, ranging in capacity from 15 hp to 350 hp. Open and screw type compressors are used in the system; complete kiln equipment is supplied in addition to the dehumidifier.

Uraken Canada Ltd. is one of the world's largest manufacturers of high temperature dehumidification lumber dryers. Uraken LRO Models 75, 60, 40, 25, and 15. Uraken Model LRS-50.

Particular Specifications

Height cm (in)	253 (99 1/2)
Overall length cm (in)	516 (203)
Maximum width cm (in)	163 (64)
Ground clearance cm (in)	20 (8)
Total weight kg (lb)	4 536 (10 000)

Mechanical Specifications

Engine compressor kW (hp)	74.6 (100)
blower kW (hp)	18.6 (25)
Temp deg. C (F)	26.7-73.9 (80-165)
Water extract L/day (U.S. gal/day)	5 110 (1 350)
Refrigerant	R-12
Capacity m^3 (MBF)	271 (115)

Operational Specifications

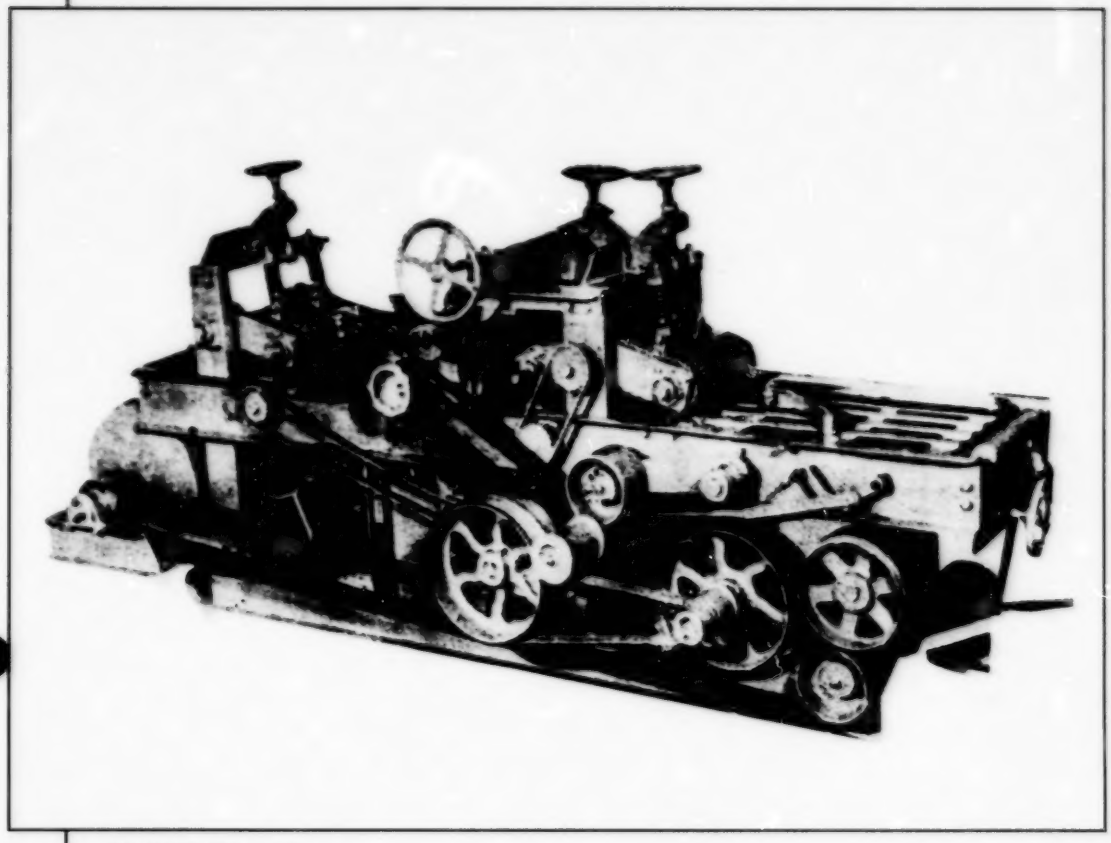
The Uraken LRO generation of dehumidifiers extract water at low temperatures. This allows full use of the wood's natural resistance to stress; an inherent quality of wood found only at lower temperatures. The stresses inside the wood are then kept in balance by the wood's own strength to assure optimum drying quality, regardless of the species.

The heat pump technology has made wood drying more efficient, safe and trouble free. In terms of operational savings, it means getting four units of energy and paying for only one.

MANUFACTURER:

URAKEN CANADA LTD.

559 Industrial Blvd.
St. Eustache, Que.
J7R 6C3
TEL: (514) 472-7272
FAX: (514) 472-8010



The Almac Alco Planer.

Almac (formerly Coutts Machinery) manufactures a sawmilling line from complete sawmills to log handling, log breakdown and lumber handling equipment.

Manufacturers of the Beaver 49 planer, Alco planer and automatic feed table.

Particular Specifications

Weight kg (lb)	2 041 (4 500)
Height m (ft)	1.2 (4)
Length m (ft)	3.0 (10)
Drive shaft diam. cm (in)	5.6 (2.2)

Mechanical Specifications

Drive shaft speed	1250 r.p.m.
Feed rolls, 6	15.2 (6 in) fluted infeed
Cylinders, 4 knife round	33 cm (13 in) x 12.7 cm (5 in)
Side heads, round 4-knife	
Knives	Full set for cylinders and heads
Exhauster	H.D. 30.5 cm (12 in) intake, 25.4 cm (10 in) outlet

Operational Specifications

Capacity cm (in)	30.5 (12) x 10.2 (4)
Feed speed	up to 38.1 m (125 ft) lineal/min.

Transmission can be supplied for variable feed and reverse.

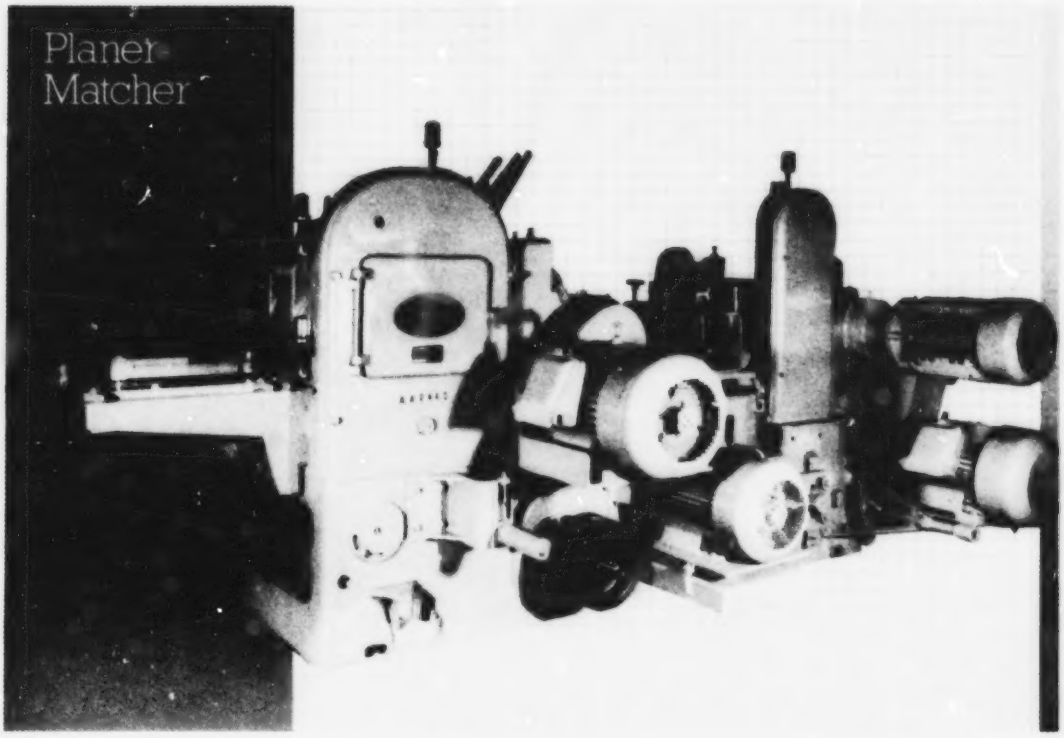
The Beaver model 49 is also available, and has a larger capacity of 30.5 cm (in) x 15.2 cm (6 in), with feed speeds up to 61 m (200 ft) lineal per minute, with 20.3 cm (8 in) diam. feed rolls.

MANUFACTURER:

ALMAC MACHINE WORKS LTD.

9539 - 56 Ave.
Edmonton, Alta.
T6E 0B2
TEL: (403) 434-3402
FAX: (403) 437-3507

GUERETTE HIGH SPEED HYDRAULIC PLANER-MATCHER



Side view of the Guerette 128 high speed, hydraulic, planer-matcher.

Guerette are specialists in building/rebuilding planer-matchers. They are also fabricators of conveyors, transfer and planer mill equipment. Model 128 high speed hydraulic planer-matcher; models G-600, G-850 and G-1000 automatic feed tables; models G20, G30, and G40 automatic breakdown tilt hoist; 6/8/10/12/16 knife side heads.

Particular and Mechanical Specifications

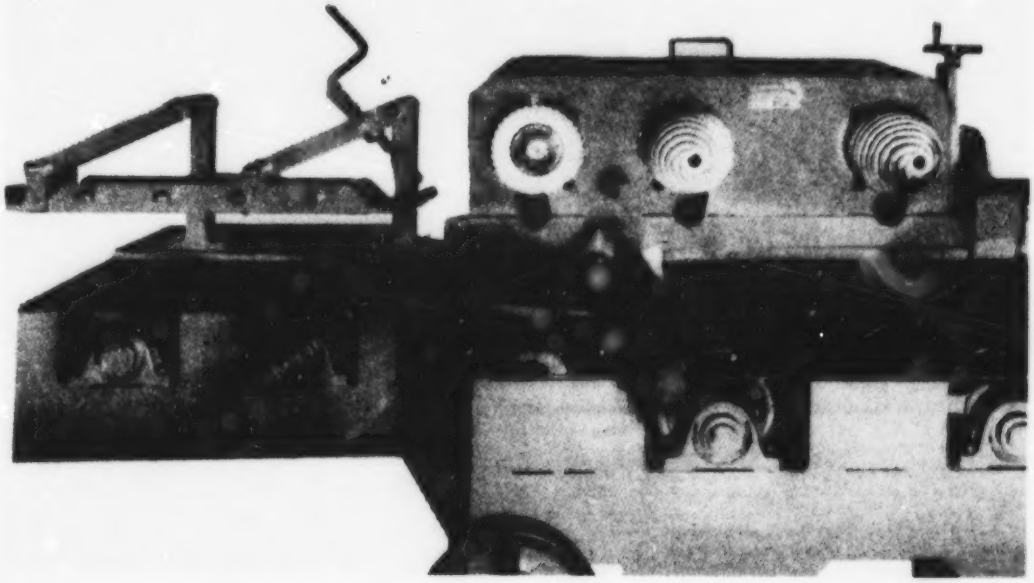
Capacity cm (in)	30.5 (12) width 20.3 (8) height
Minimum width capacity cm (in)	3.8 (1 1/2)
Drive speed rpm	300 to 1 400 (var.)
Top and bottom heads,	16, 18, 20 knives
Ring of cutters cm (in)	36.8 (14.5)
Angle of cut, degrees	25
Brakes	Electric
Side cutting heads,	12, 14, 16 knives
Ring of cutters cm (in)	35.9 (14 1/8)
Brakes	Electric
Motors	
Top head kW (hp)	74.6 (100) to 112 (150)
Bottom head kW (hp)	45 (60) to 56 (75)
Right head kW (hp)	30 (40) to 37 (50)
Left head kW (hp)	37 (50) to 56 (75)
Drive kW (hp)	3 motors of 29.9 (40) each
Weight	
Planer kg (lb)	11 794 (26 000)
Electric controls kg (lb)	907 (2 000)
Hydraulic units kg (lb)	907 (2 000)
Floor space required m (ft)	8 (14.75) x 2.8 (9.7)
Voltage	Standard 3 phase/ 60 Hertz/575 V
Brakes	Electric, for each motor per head
Controls	Automatic, programmable electric

MANUFACTURER:

GUERETTE & FRERE LIMITÉE

545 St. Alexandre St.
Longueuil, Que.
J4H 3G4
TEL: (514) 677-2891
FAX: (514) 646-3669

GUERETTE AUTOMATIC FEED TABLE



Guerette are specialists in building/rebuilding planer/matchers. They are also fabricators of conveyors, transfer and planer mill equipment, feed tables and breakdown tilt hoist.

Automatic feed tables are available in models G-600, G-850, G-1000.

Particular Specifications

Model	G-600	G-850	G-1000
Stock thinness cm (in)	1.3 (1/2)	1.3 (1/2)	1.3 (1/2)
Stock thickness cm (in)	15.2 (6)	20.3 (8)	20.3 (8)
Minimal length cm (in)	122 (48)	122 (48)	122 (48)
Weight kg (lb)	1588 (3,500)	1996 (4,400)	3084 (6,800)
Floor space m (ft)	2.1 (7) x 4.6 (15)	2.1 (7) x 6.1 (20)	2.1 (7) x 6.1 (20)

Mechanical Specifications

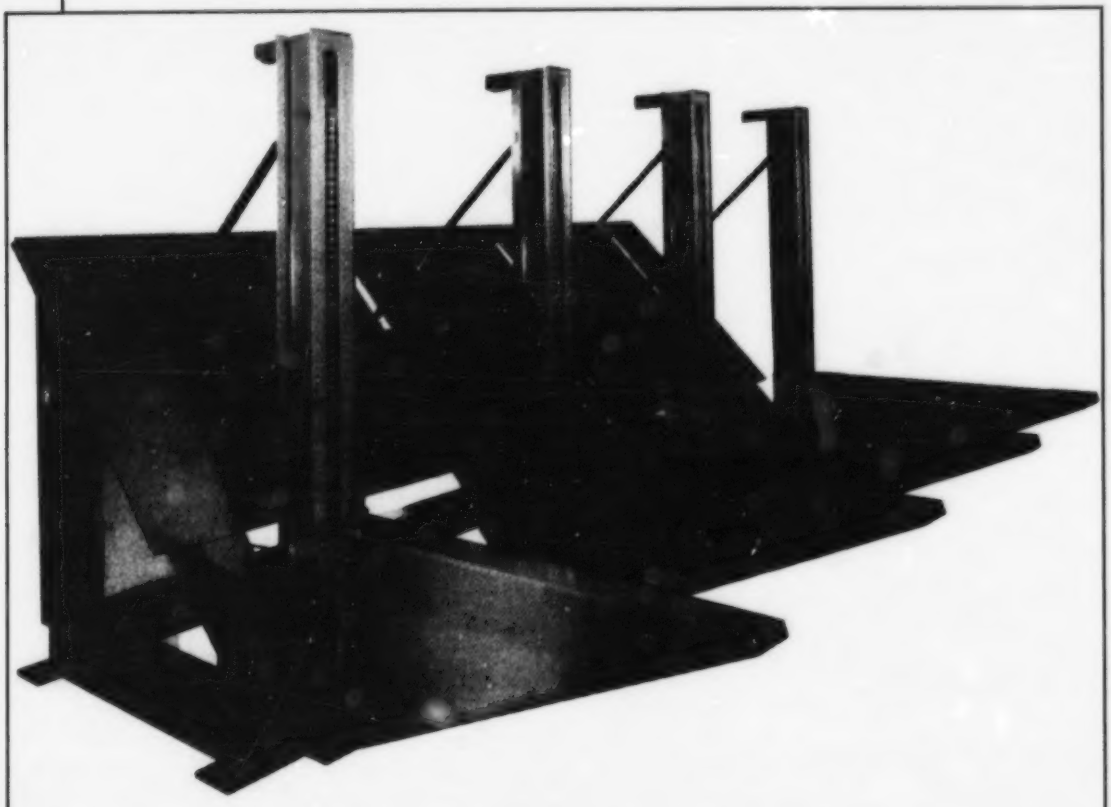
Roll width 25.4 cm (10 in) spiral sec.	76 (30)	76 (30)	76 (30)
Roll width cm (in) plain camber	76 (30)	76 (30)	76 (30)
Roll diam. cm (in)	15.2 (6)	21.6 (8 1/2)	25.4 (10)
Number of Rolls	5	7	7
LFPM feeds or chain drive	300	700	1000

MANUFACTURER:

GUERETTE & FRERE LTD.

545 St. Alexandre St.
Longueuil, Que.
J4H 3G4
TEL: (514) 677-2891
FAX: (514) 646-3669

GUERETTE AUTOMATIC BREAKDOWN TILT HOIST



Guerette are specialists in building/rebuilding planer-matchers. They are also fabricators of conveyors, transfer and planer mill equipment, feed tables and breakdown tilt hoist.

Available in 2, 3, or 4-arm automatic tilt hoist, models G20, G30, G40.

Particular Specifications

Motorized kW (hp)	7.5 (10) T.E.F.C. with brake
Heavy-duty speed reducer	
Diameter head shaft cm (in)	7.5 (2.94)
Heavy-duty H-beam frame	

Option:

Drive for the infeed deck is installed inside the frame of the tilt hoist.

Sticker conveyor built onto the tilt hoist

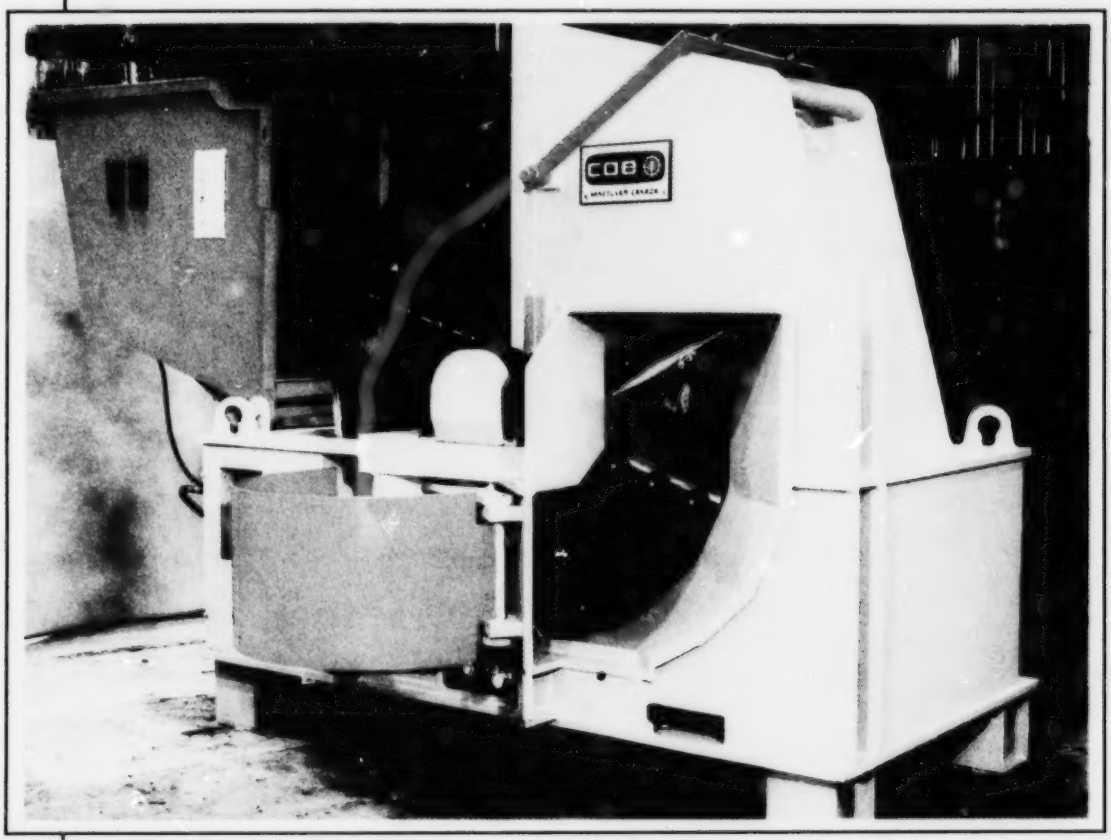
MANUFACTURER:

GUERETTE & FRERE LTD.

545 St. Alexandre St.
Longueuil, Que.
J4H 3G4
TEL: (514) 677-2891
FAX: (514) 646-3669

COMPLEMENTARY EQUIPMENT

Chippers
Chip Handling Equipment: Vibrating and
Pneumatic Conveyors
Chip Blowers, Chip Screens, Bins
Air Collectors/Filters
Hammermills
Lumber Bundle Handling and Loading Equipment
Bandsaw Blades, Edger Saws, Cutter Heads,
Solid Toothed Saws
Grinding Room Equipment
Moulders
Shingle Mills
Machining and Assembly
Stenciler
Pressure Treatment Plants
Other



The CAE 165 cm (65 in) Super Chipper, a horizontal feed, wastewood chipper designed to produce high quality chips.

Available as the CAE horizontal feed super chipper, SUA (spout-under-arbor) feed chipper, SOA feed chipper, horizontal feed chipper and gravity feed chipper.

CAE machinery are specialists in the manufacture of sawmill machinery.

Particular and Mechanical Specifications

Chipper disc size cm (in)	140 (55)	165 (65)
Avg. chip capacity UPH	27	42
Motor requirements kW (hp)	112/149	186/224
Bot. back/top disch.	(150/200)	(250/300)
Rotating inertia lb/ft²		
Bot & back discharge	11200	19600
Top discharge	12500	23200
Weights kg (lb)		
Bot & back discharge	4309 (9500)	5171 (11400)
Top discharge	4627 (10200)	5579 (12300)

Discharge arrangements are available in either back, top or bottom configurations.

For other discs sizes, in horizontal feed chippers, such as the 1370, 1575, 1750, 1930 mm (54, 62, 69, 76 in), as well as 1220, 2440, 2850 mm (48, 96, 112 in), refer to CAE for particular information.

Operational Specifications

The CAE super chipper's smooth back and contoured disc, minimizes chip damage, and maximizes chip quality. The reduced knife-to-anvil clearance gives maximum chipping efficiency. The recirculating ring maximizes chip recovery. The swing away side anvil door has shear bolts to protect disc from damage by rocks or metal entering the spout.

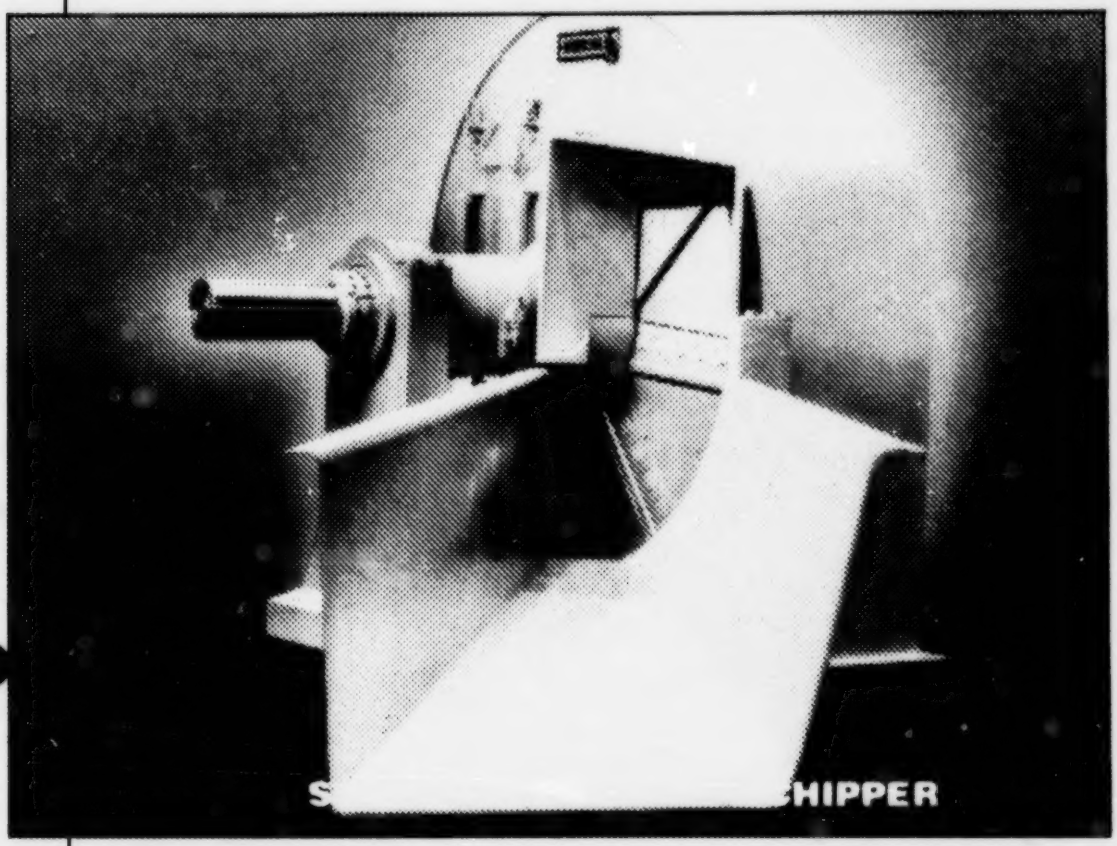
MANUFACTURER:

CAE MACHINERY LTD.

3550 Lougheed Hwy.
Vancouver, B.C.
V5M 2A3
TEL: (604) 299-3431
FAX: (604) 299-1310
TELEX: 04-53498

NICHOLSON WASTE WOOD CHIPPER

The Nicholson waste wood chipper is available in four chipper sizes: 1092 mm (43 in), 1346 mm (53 in), 1626 mm (64 in) and 1905 mm (75 in).



Self-feeding wastewood chipper used for chipping a full range of sawmill residuals.

Operational Specifications

The waste wood chipper is designed to process the total range of residuals produced in a sawmill operation. Bell shaped slabs from logs with flared butts, as well as straight slabs, edgings, lumber trims and lily pads can all be easily fed into this chipper.

The chipper must be fed with a vibrating conveyor and an extended sloping transition section to fit the slanting spout surfaces. In chip discharge, the unobstructed back side of the disc allows freedom of chip discharge options. Chips can also be discharged into an extended tunnel, into a cyclone funnel, or be sheared directly off onto a conveyor.

Particular Specifications

Chipper size mm (in)	1092 (43)	1346 (53)	1626 (64)	1905 (75)
Max. slab, mm (in)	686 (27)	864 (34)	1041 (41)	1219 (48)
Max. log diam. mm (in)	235 (9.25)	292 (11.5)	349 (13.75)	305 (16)
Max. conveyor width mm (in)	457 (18)	559 (22)	660 (26)	762 (30)
Weight kg (lb) Gravity discharge	2 401 (5 294)	3 741 (8 247)	5 012 (11 050)	6 350 (14 000)
Fan discharge	2 641 (5 823)	4 115 (9 071)	5 552 (12 240)	7 108 (15 670)

Mechanical Operations

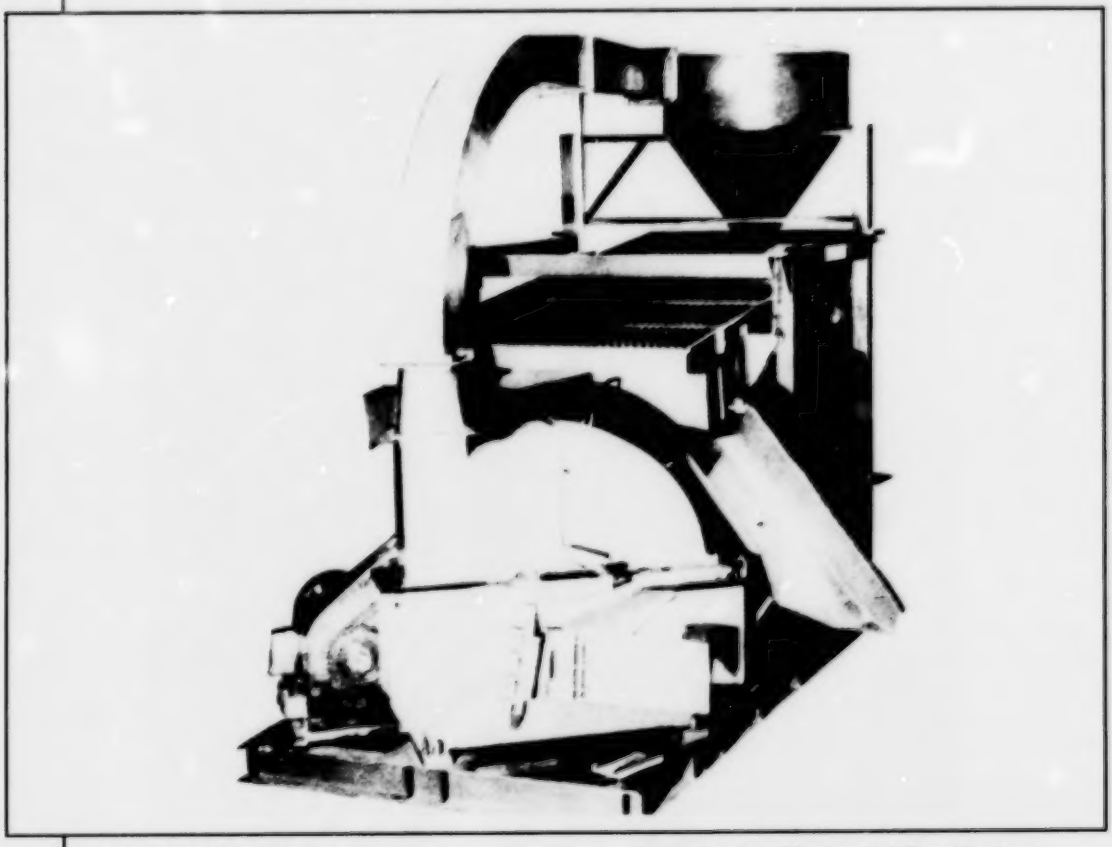
Average production units/hour	12	15	18	25
Max. RPM	900	750	600	514
No. knives	4, 6	4, 6, 8	4, 6, 8	4, 6, 8, 10
Motor kW (hp) Belt drive, min/max	75/112	112/225	112/300	150/485
Direct drive, min/max	(100/150)	(150/300)	(150/400)	(200/650)

MANUFACTURER:

NICHOLSON MANUFACTURING LTD.

327 Harbour Road
Victoria, B.C.
V9A 3S2
TEL: (604) 385-6757
FAX: (604) 385-6454
TELEX: 04-97215

T.S. CHIP-PAK



T.S. Chip-Pak consisting of chipper, rotary chip screen and cyclone.

T.S. Manufacturing makes a full line of log handling and processing equipment, lumber handling and processing equipment, waste handling and processing equipment, complete sawmills, planing mills and wood room installations.

T.S. Chip-Pak with three basic components: Chipper, Rotary Chip Screen and Cyclone, with ancillary equipment. T.S. designs, manufactures and installs the complete systems.

Particular and Mechanical Specifications

Chipper:
- Pre-mounted on its own base ready to bolt to main base, complete with electric motor.
- Chipper size cm (in) 122 (48) to 152 (60)
- Horizontal or drop feed
- Top or bottom discharge

Rotary Chip Screen:
- Screen, units
- Heavy rod end bearings 12 to 30
- Counter balanced flywheel

Cyclone:
- Pre-mounted to the main base frame
- Complete with chip pipe, for connection to the chipper discharge spout.

Ancillary Equipment:
- Low pressure blowing system
- High pressure pneumatic blowing system
- Belt or drag chain conveyors
- Vibrating chipper infeed conveyor

Operational Specifications

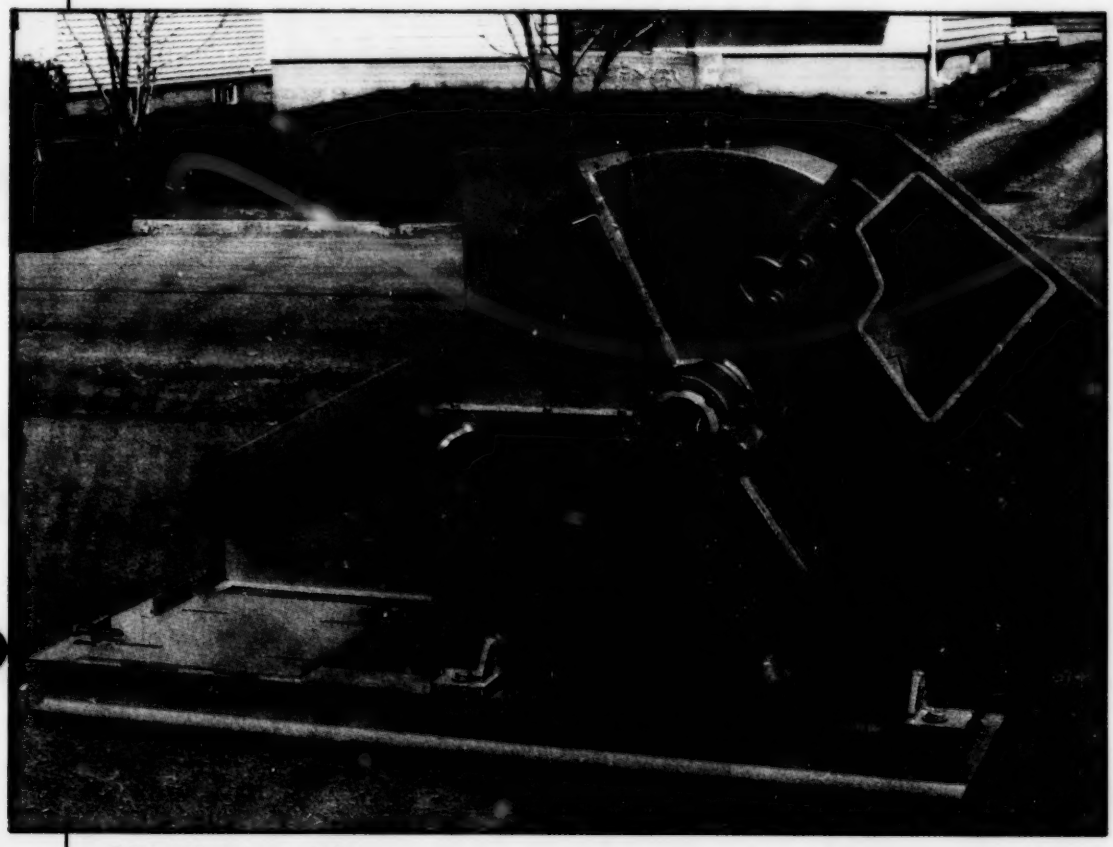
The T.S. Chip-Pak can be positioned in any arrangement to suit the mill application. It is constructed of a modular design that makes field assembly simple, by bolting the sub assemblies, without the need for any welding.

MANUFACTURER:

T.S. MANUFACTURING COMPANY

P.O. Box 487,
55 Needham Street
Lindsay, Ontario
K9V 4S5
TEL: (705) 324-6482
FAX: (705) 324-6482
TELEX: 06-962802

R.M.L. CHIPPER



R.M.L. chipper is a part of a "Fast Chips" system, which includes the chipper, sifter, cyclone, sawdust exhauster, shavings exhauster and electrical control board.

R.M.L. Chippers are available in several models: for hook-up to agricultural tractors; Also available in models RM 12 x 12 and RM 12 x 16, with chippers mounted on single axle trailers with their own power source, and chippers mounted on truck platforms; and available in 122 cm (48 in) diameter chippers for sawmill, plane factory, furniture manufacturing and any other mill with wood refuse.

Particular and Mechanical Specifications

R.M.L. 12 x 12, 12 x 16 Brush Chippers

Cylinder	High strength C-1040 30.5 cm (12 in) diam.
Shaft	C-1040, 8.3 cm (3 1/4 in) diam. 4 knives, high speed, steel
Bearings	Spherical roller bearings
Body	Welded steel 16 mm (5/8 in) thick
	Flywheel 533 mm (21 in) diameter on shaft
Capacity	Hardwood 11.4 cm (4 1/2 in) diam.
Chipper	9 1/2 x 11 1/2 in. (model RM 12 x 12
	9 1/2 x 15 1/2 in. (model RM 12 x 16)

R.M.L. 122 cm (48 in) Diameter Chippers

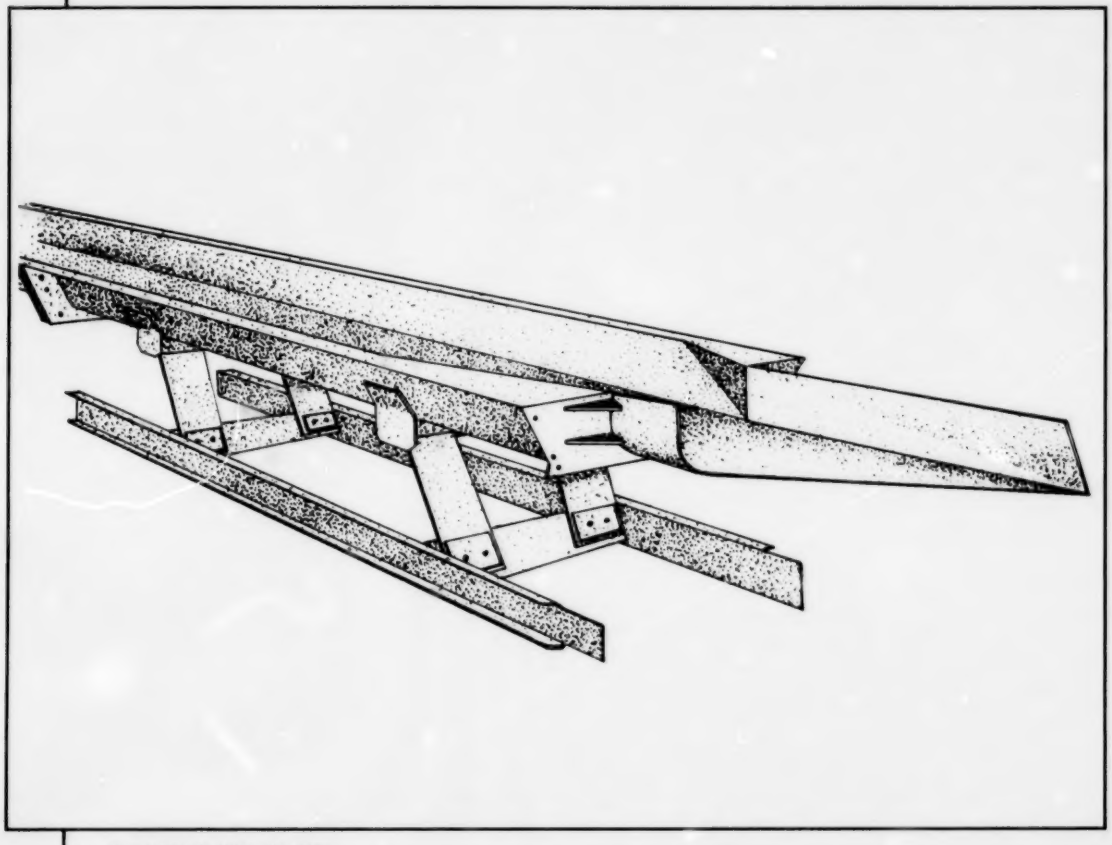
Dimensions	From 12.7 x 12.7 cm (5x5 ft) to 20.3 x 20.3 cm (8x8 ft)
	Choice of 3 or 6 knives
	Horizontal or 45 degree sloped inlet
Average Production	145 m^3 (40 cords) per hour

MANUFACTURER:

RODRIGUE METAL LTÉE.

256 rue Jacques-Cartier St-Romuald, Quebec G6W 3A9
TEL: (418) 839-0671
FAX: (418) 839-4132
TELEX: 05-13786

COMACT VIBRATING CONVEYOR



Comact 750 VIB vibrating conveyor.

Comact are specialists in fabricating sawmilling equipment. They manufacture 750 VIB vibrating conveyors of 46 cm (18 in) or 61 cm (24 in) wide.

Particular Specifications

Width (at bottom) cm (in)	45.7 (18) or 61 (24)
Length m (ft) sections	1.5 (5)

Annealed steel frame, fiberglass sections

Mechanical Specifications

Motorized section 3.7 kW (5 hp) for conveyor's length up to 7.6 m (25 ft) long
Motorized section of 5.6 kW (7.5 hp) for conveyor's length up to 15.2 (50 ft) long
Standard, non motorized section of 1.5 m (5 ft) or 3 m (10 ft) long
Options:
- Metal detector
- Other than standard lengths
- Transition section

MANUFACTURER:

COMACT INC.

4000 40e rue.
St-Georges, Que.
G5Y 5K6
TEL: (418) 228-8911
FAX: (418) 228-7466
TELEX: 05-833510

CANMEC VIBRATING CONVEYOR

Canmec Vibrating Conveyor.

MANUFACTURER:

CANMEC INC.

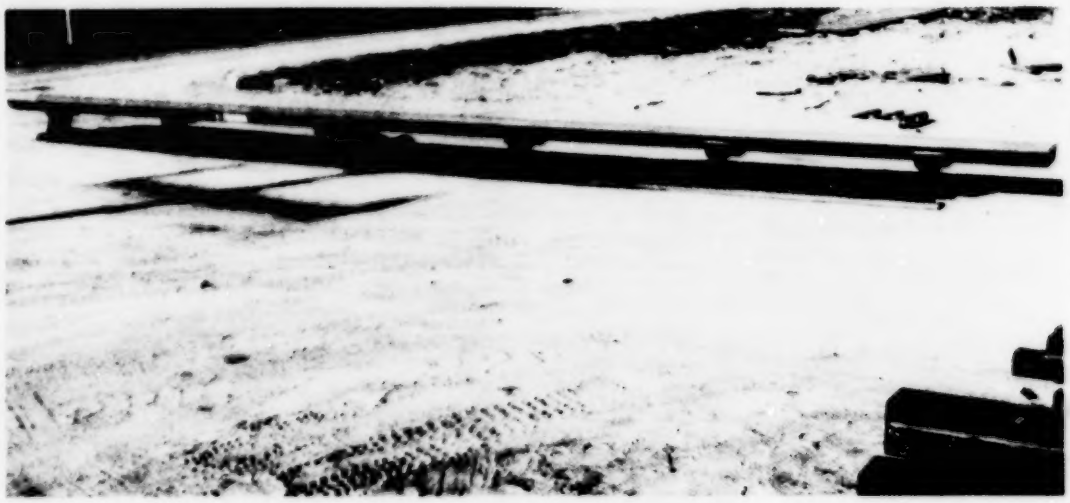
1750 La Grande
Chicoutimi, Que.
G7H 5B3
TEL: (418) 543-6161
FAX: (418) 543-5564

Canmec designs and manufactures machinery for the pulpmill and sawmill industries. Canmec manufactures a line of log, lumber and chip handling equipment.

General Specifications

Canmec manufactures custom designs and builds vibrating conveyors to suit particular applications. Various standard profiles are available, as well as custom shapes.

T.S. VIBRATING CONVEYOR



T.S. medium duty vibrating conveyor.

T.S. Manufacturing designs and manufactures machinery at their Lindsay, Ontario plant for a wide range of mills throughout the world. They do everything from a single machine modification or rebuilding, to turn key projects, including concept engineering, manufacturing and installation.

T.S. Manufacturing makes a full line of log handling and processing equipment, lumber handling and processing equipment, waste handling and processing equipment, complete sawmills, planing mills and wood room installations.

T.S. Medium Duty Vibrating Conveyor in types A, B, C and standard trough shapes.

Operational Specifications

T.S. Manufacturing custom designs and builds leaf spring vibrating conveyors to suit particular applications. Various standard profiles are available, as well as custom shapes.

Options:
- Fiberglass sections for use with metal detectors
- Perforated screen sections for sawdust removal
- Special screening conveyors
- Chipper feed spout transition

Particular and Mechanical Specifications

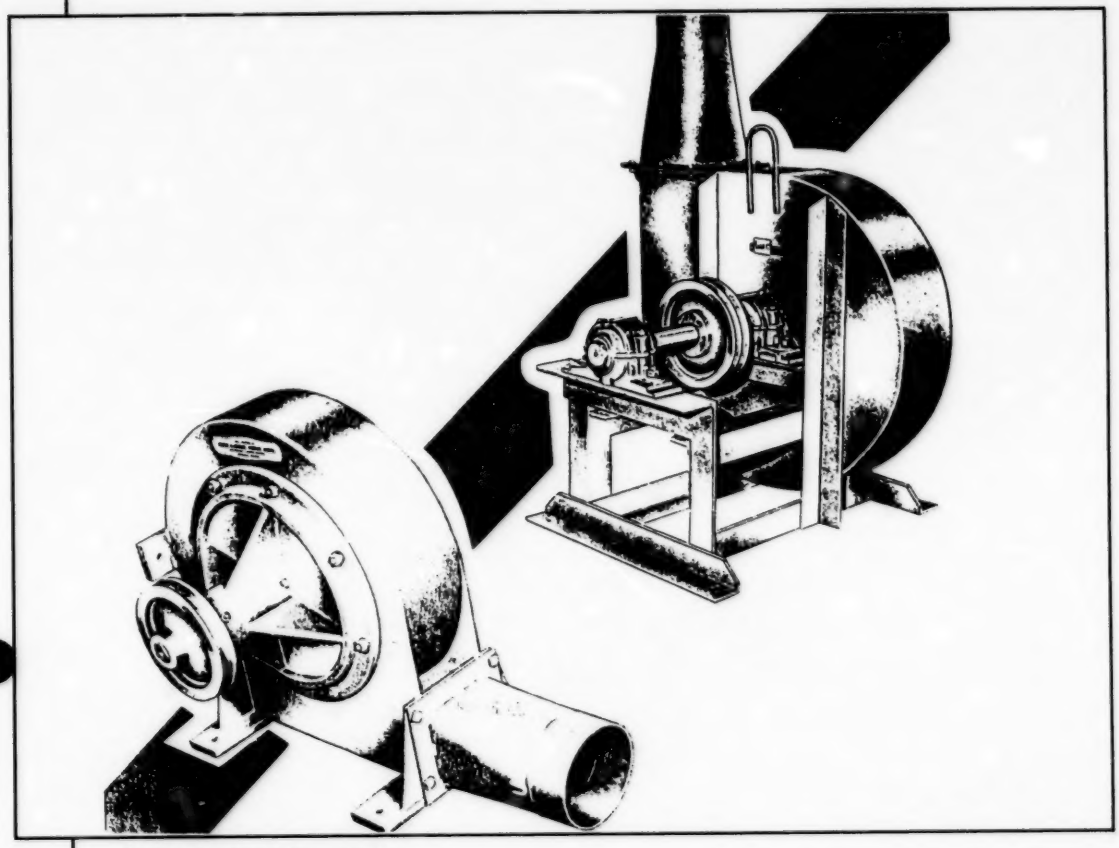
Power required per conveyor length kW (hp)/m (ft)			
2.2 (3)/ 3.3 (10)-6 (20)	3.7 (5)/ 6 (20)-12.2 (40)	5.6 (7.5)/ 12.2 (40)-18.3 (60)	7.5 (10)/ 18.3 (60)-24.4 (80)
Standard sections m (ft)		3 (10)	1.5 (5)
Widths cm (in)	30.5 (12)	45.7 (18)	61 (24)

MANUFACTURER:

T.S. MANUFACTURING COMPANY

P.O. Box 487
55 Needham Street
Lindsay, Ontario
K9V 4S5
TEL: (705) 324-6482
FAX: (705) 324-6482
TELEX: 06-962802

ALMAC SAWDUST BLOWERS



Almac sawdust blowers for headsaw and edger applications.

Almac (formerly Coutts Machinery) manufactures a sawmilling line from complete sawmills to log handling, log breakdown and lumber handling equipment.

Ball-bearing blowers are available in three regular models with 61 cm (24 in) and 76.2 cm (30 in) sizes interchangeable from right or left hand. The 91.4 cm (36 in) blower is not interchangeable.

Operational Specifications

All models are heavy duty blowers with the larger sizes normally applied to head saw application, and the smaller size used for edger work.

Particular and Mechanical Specifications

Models	91.4 cm (36 in)	76.2 cm (30 in)	61 cm (24 in)
Fan housing	91.4 x 20.3 x 0.64 (36 x 8 x 1/4)	76.2 x 15.2 x 0.64 (30 x 6 x 1/4)	61 x 12.7 x 0.5 (24 x 5 x 3/16)
Fan (steel plate)	61 x 15.2 x 1.0 (24 x 6 x 3/8)	45.7 x 11.4 x 10.2 18 x 4.5 x 4)	38.1 x 12.7 x .5 15 x 4 x 3/16)
Intake opening cm (in)	30.5 (12)	22.9 (9)	16.8 (6 5/8)
Discharge opening cm (in)	20.3 (8)	16.8 (6 5/8)	14.0 (5 1/2)
Max. Operating Speed rpm	3000	3600	3800
Power requirement kW (hp)	8.9 (12)	6 (8)	4.5 (6)
Approximate weight kg (lb)	329 (725)	159 (350)	102 (225)

MANUFACTURER:

ALMAC MACHINE WORKS LTD.

9539 - 56th Ave.
Edmonton, Alta.
T6E 0B2
TEL: (403) 434-3402
FAX: (403) 437-3507

CANMEC DISTRIBUTION AND STORAGE SYSTEMS

Canmec Chip or sawdust bin.

Canmec designs and manufactures machinery for the pulpmill and sawmill industries. Canmec manufactures a line of log, lumber and chip handling and storage equipment. Canmec bark bins, chip and sawdust bins.

General Specifications

All steel, bolted construction
Modular designs
Sturdy structural steel frame

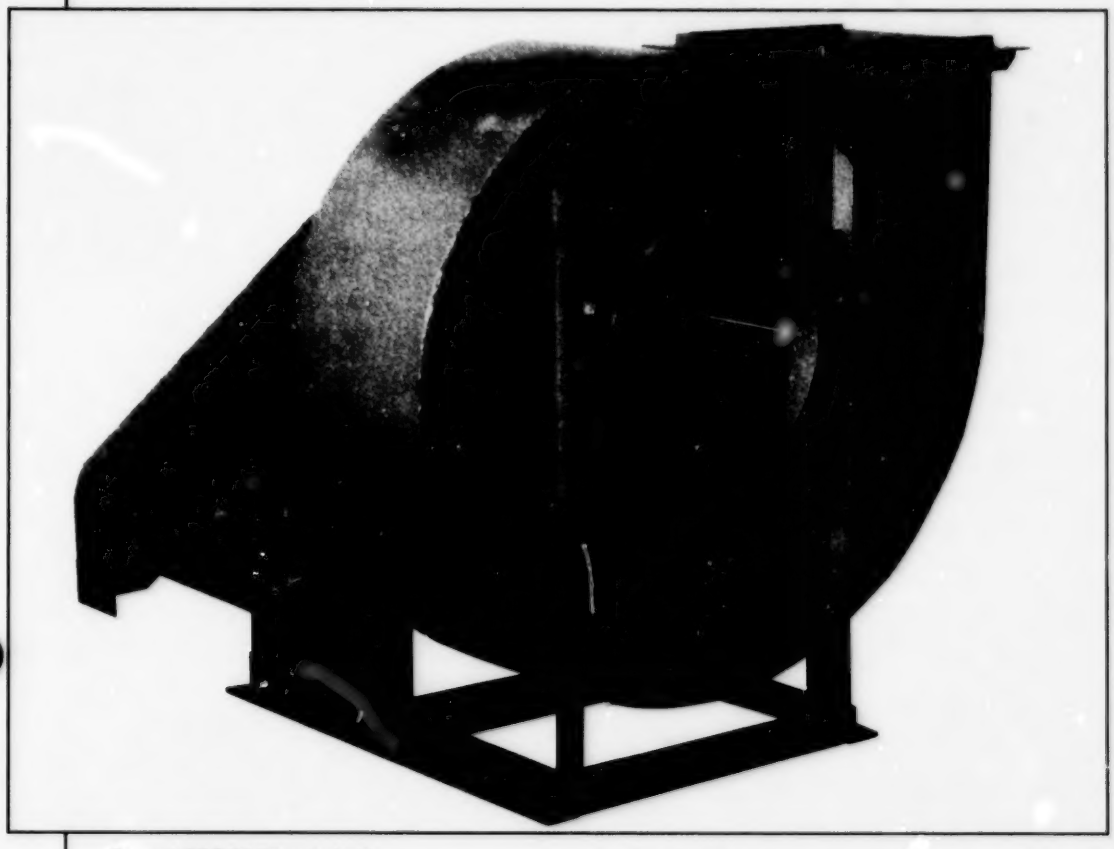
Designed and manufactured by Canmec to meet the purchaser's particular system needs.

MANUFACTURER:

CANMEC INC.

1750 La Grande
Chicoutimi, Que.
G7H 5B3
TEL: (418) 543-6161
FAX: (418) 543-5564

COMACT MOTOR CHIP BLOWERS



Comact CO-T 93-94 motorized blower.

Comact are specialists in fabricating sawmilling equipment.

Comact manufactures motor chip blowers in models CO-T 93, 94 welded steel, and CO-T 87 and 92 cast-iron types.

Particular Specifications

Model	CO-T 93	CO-T 94
Inlet diam. cm (in)	38 (15)	45.7 (18)
Outlet, cm (in)	30 x 33 (12 x 13)	38 x 38 (15 x 15)
Width of frame cm (in)	30 (12)	38 (15)
Floor space cm (in)	107 x 102 x 127 (42 x 40 x 50)	119 x 127 x 147 (47 x 50 x 58)
Shipping weight kg (lb) less motor	288 (635)	440 (970)

Mechanical Specifications

Rotor diam. cm (in)	64 (25)	76 (30)
Number of blades	6	6
Power required kW (hp)	14.9 (20)	18.6 (25)
Max. revolution RPM	1500	1300
Capacity cm^3/sec (cfm)	2.99 MM (6340)	3.72 MM (7890)

Operational Specifications

The Model CO-T 93 and 94 chip blowers are fabricated of heavy welded steel construction, and are mounted on a wide base. The rotor is well balanced and turns on ball bearings.

The direction of the outlet is reversible. These blowers can be supplied with motor in the base.

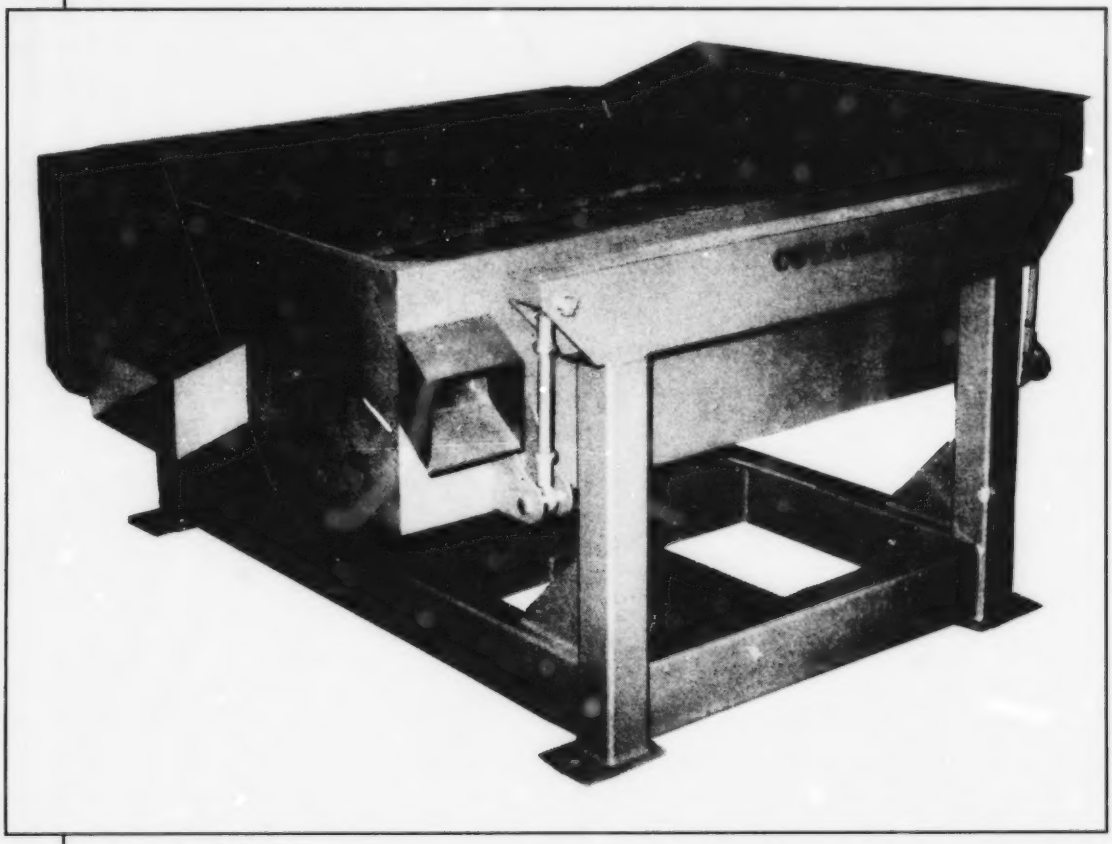
Chip blowers of other dimensions can be made to order.

MANUFACTURER:

COMACT INC.

4000, 40e rue.
St-Georges, Que.
G5Y 5K6
TEL: (418) 228-8911
FAX: (418) 228-7466
TELEX: 05-833510

COMACT CHIP SCREEN



Sturdy all steel model CS-72 chip screen.

Comact are specialists in fabricating sawmilling equipment. Comact manufactures chip screen models CS-60, CS-72, CS-84, CS-96, CS-120.

Particular Specifications

Model	CS-60	CS-72	CS-84	CS-96	CS-120
Length cm (in)	180 (71)	211 (83)	241 (95)	272 (107)	338 (133)
Width cm (in)	126 (49.5)	156 (61.5)	197 (78)	228 (90)	279 (110)
Height cm (in)	137 (54)	137 (54)	149 (59)	149 (59)	171 (67.4)
Weight kg (lb)	1043 (2300)	1452 (3200)	1996 (4400)	2631 (5800)	3130 (6900)
Screen Surface cm x cm (in x in))	152 x 152 (60 x 60)	183 x 183 (72 x 72)	213 x 213 (84 x 84)	244 x 244 (96 x 96)	305 x 305 (120 x 120)

Mechanical Specifications

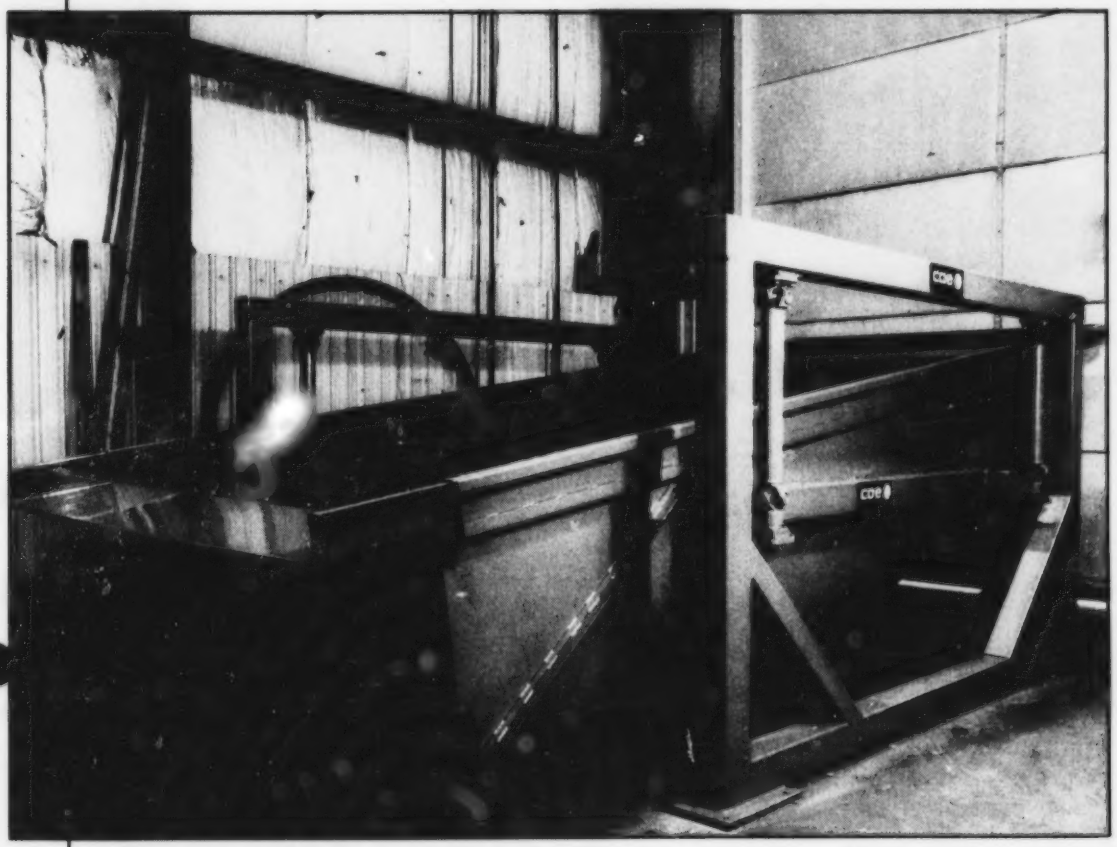
Model					
Capacity m^3 (cds)/hr	29 (8)	43.5 (12)	65.2 (18)	87 (24)	108.7 (30)
Power req. kW (hp)	1.5 (2)	1.5 (2)	2.2 (3)	2.2 (3)	5.6 (7.5)

MANUFACTURER:

COMACT INC.

4000 40e rue.
St-Georges, Que.
G5Y 5K6
TEL: (418) 228-8911
FAX: (418) 228-7466
TELEX: 05-833510

CAE SUSPENDED CHIP SCREEN



CAE Suspended Chip Screen.

CAE are specialists in the manufacture of sawmill machinery. The Company manufactures chip screen models 45S, 55S, 65S, 75S and 85S. Also rotary chip screen models 45, 55, 65 and 75.

Chip screen mounting comes in two options: overhead, mounted for hanging from steel supports; base mounted, where the screen is suspended within its own integral frame.

Particular and Mechanical Specifications

Model	#45S	#55S	#65S	#75S	#85S
Screen Size m	1.3x2.6	1.6x3.3	1.9x3.9	2.2x4.5	2.6x5.2
(ft)	(4.3x8.7)	(5.3x10.7)	(6.3x12.7)	(7.3x14.7)	(8.5x17.0)
Capacity UPH	17	25	35	46	60
Drive kW (HP)	3.7 (5)	3.7 (5)	3.7 (5)	5.6 (7.5)	5.6 (7.5)
Shipping Weight kg (lb)	1588 (3500)	1905 (4200)	2268 (5000)	2631 (5800)	3175 (7000)
Shipping Volume m^3(cu ft)	7.4 (260)	9.5 (335)	11.9 (420)	15.3 (540)	19.5 (690)

Screen Plates: Standard screen plates are steel with 21 mm (2 in) square holes in the top screens and 8 mm (5/16 in) round holes in the bottom screen. Other hole sizes available.

Base Mounted Model (Optional): Base mounted screen has an integral support stand which simplifies replacement of screen plates.

Discharge Spout: The standard discharge arrangements consist of two fabricated trays for acceptable and oversize chips. The trays extend over the full screen width. Fines discharge freely over the lower edge of the pan.

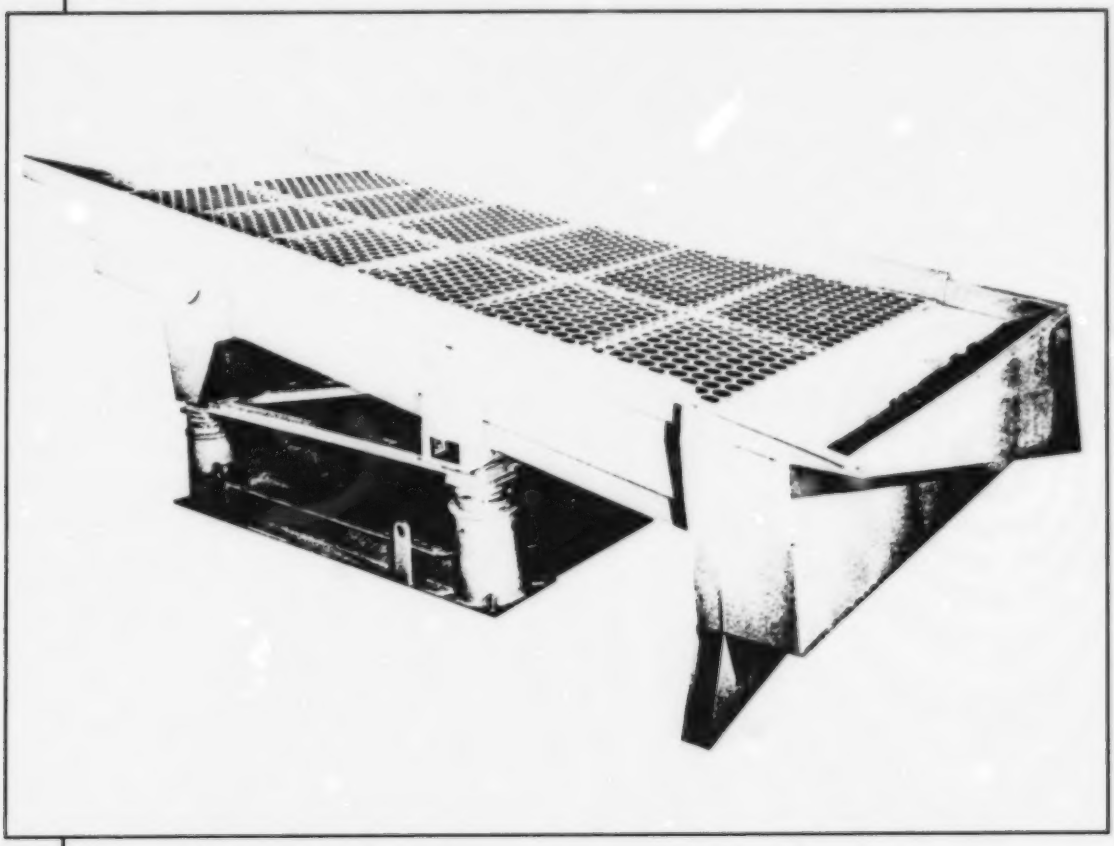
Drive: Supplied-mounted to screen frame, 60 cycles 1800 rpm, TEFC. Models 45S, 55S, - 5HP Frame 184T. Models 75S, 85S, - 7.5 HP Frame 213T.

MANUFACTURER:

CAE MACHINERY LTD.

3550 Lougheed Hwy.
Vancouver, B.C.
V5M 2A3
TEL: (604) 299-3431
FAX: (604) 299-1310
TELEX: 04-53498

SWECAN CHIPS SCREEN



Swecan Chips Screen
Model SW65.

Swecan line of products includes chipper canters with 2, 3 or 4 chipper heads; combination chipper canter/twin or quad band saws; single, twin and quad band edgers; 18 in., 26 in. and 30 in. ring type debarkers/spare parts; wide band saw blades/bent chipper knives.

Swecan Chips Screens, available in models SW65 & SW75.

Particular Specifications

Models	65	75
Dimensions: m (ft)	4.7 (15.5) x 2.2 (7.25)	5.3 (17.5) x 2.4 (8)
Weight: kg (lb)	1996 (4400)	2177 (4800)

Mechanical Specifications

Drive HP: kW (hp)	2.2 (3)	2.2 (3)
Volume : m^3 (ft^3)	24 (850)	31 (1110)

Operational Specifications

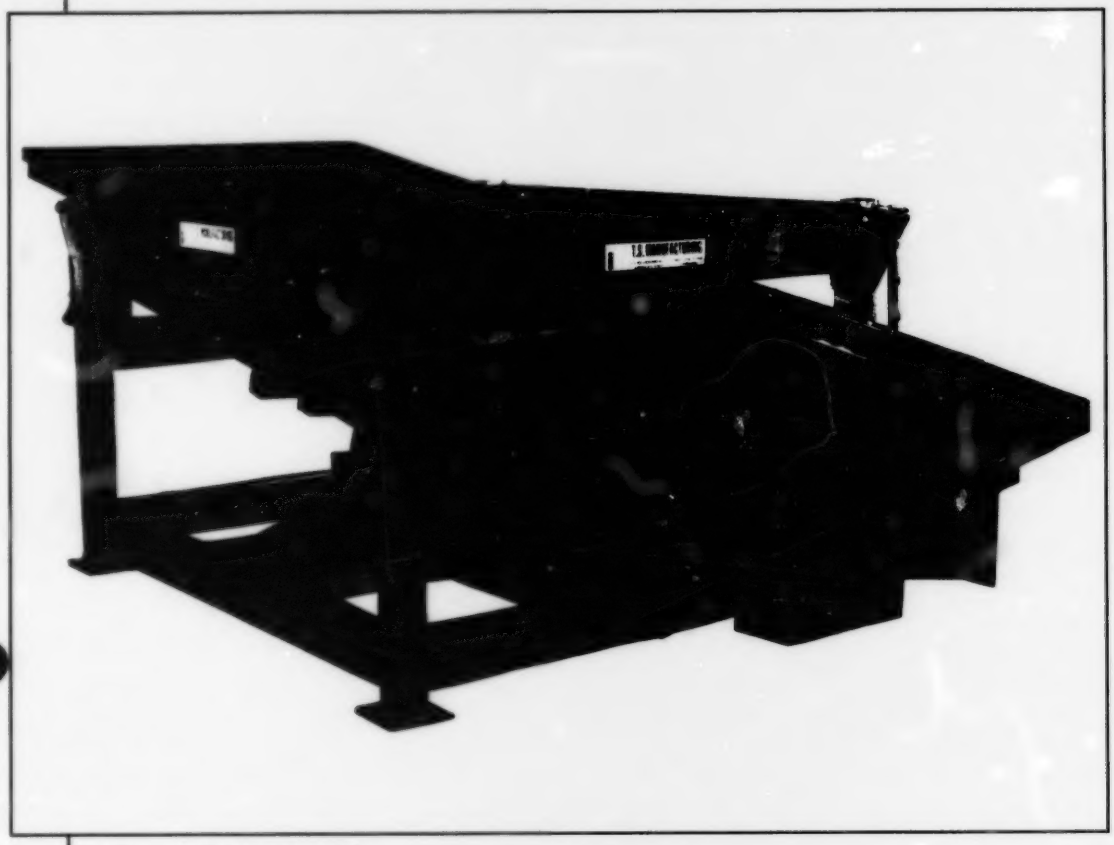
Capacity: unit/hr	30	40

Screen Plates: Sizes of holes to be specified by user.

MANUFACTURER:

SWECAN INTERNATIONAL LTD.
Lanorale, Que.
J0K 1E0
TEL: (514) 887-2313
FAX: (514) 887-2174
TELEX: 05-25609

T.S. ROTARY CHIP SCREEN



Shown is the T.S. Rotary Chip Screen smooth-flow model.

T.S. Manufacturing designs and manufactures machinery at their Lindsay, Ontario plant for a wide range of mills throughout the world. They do everything from a single machine modification or rebuilding, to turnkey projects, including concept engineering, manufacturing and installation.

T.S. Manufacturing makes a full line of log handling and processing equipment, lumber handling and processing equipment, waste handling and processing equipment, complete sawmills, planing mills and wood room installations.

T.S. Rotary Chip Screens are available in 12, 20 and 30 units.

Particular and Mechanical Specifications

Capacity units	kW (hp)	Length mm (in)	Width mm (in)	Height mm (in)
12	1.5 (2)	3100 (122)	2083 (82)	1245 (49)
20	2.2 (3)	4420 (174)	2260 (89)	1753 (69)
30	3.7 (5)	5232 (206)	2260 (89)	1956 (77)

Rotary screen suspended on heavy rod end bearings
Counter balanced flywheel
Steel or nylon screens

MANUFACTURER:

T.S. MANUFACTURING COMPANY

P.O. Box 487
55 Needham Street
Lindsay, Ontario
K9V 4S5
TEL: (705) 324-6482
FAX: (705) 324-6482
TELEX: 06-962602

T.S. PNEUMATIC CONVEYING SYSTEMS

T.S. High Pressure Pneumatic Chip Handling Systems.

T.S. Manufacturing designs and manufactures machinery at their Lindsay, Ontario plant for a wide range of mills throughout the world. They do everything from a single machine modification or rebuilding, to turnkey projects, including concept engineering, manufacturing and installation.

T.S. Manufacturing makes a full line of log handling and processing equipment, lumber handling and processing equipment, waste handling and processing equipment, complete sawmills, planing mills and wood room installations.

Particular Specifications

Pile Volume m (ft)				
Height	9.1 (30)	12.2 (40)	15.2 (50)	18.3 (60)
Length	48.8(160)	54.9(180)	61 (200)	67.1(220)
Width	41.1 (135)	47.2 (155)	53.3(175)	59.4(195)
Units	1700	2700	3900	5400

Pile vol. includes 10% compaction

Operational Specifications

T.S. Manufacturing designs, manufactures and installs complete pneumatic chip handling systems.

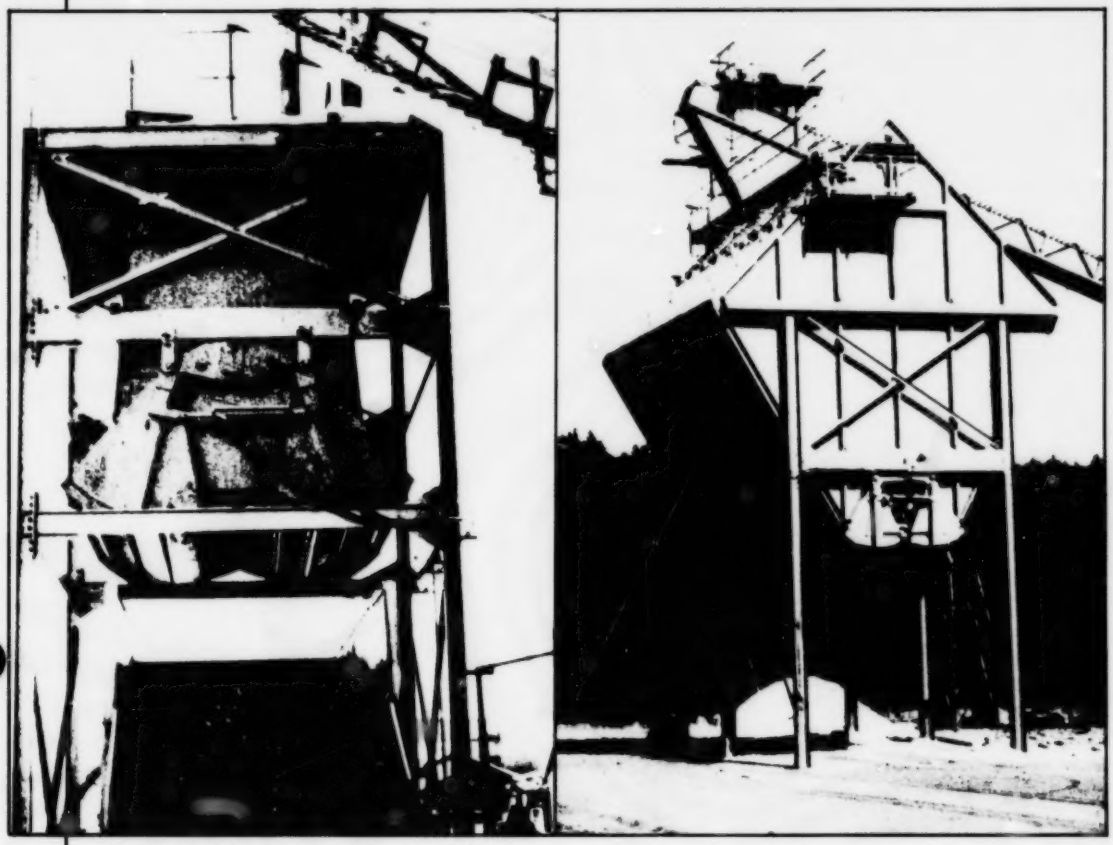
Components available from T.S. are as follows:

- Rotary airlock chip feeders
- Inlet filters
- Flat back elbows
- Pipe support towers
- Cylones
- Inlet and discharge silencers
- Blowers
- Diverter valves
- Adjustable booms
- Boom support towers
- Belt and chain conveyors
- Disc chippers

MANUFACTURER:

T.S. MANUFACTURING COMPANY

P.O. Box 487
55 Needham Street
Lindsay, Ontario
K9V 4S5
TEL: (705) 324-6482
FAX: (705) 324-6482
TELEX: 06-962802



Shown is the T.S. bark bin (left), and the chip or sawdust bin (right).

T.S. Manufacturing designs and manufactures machinery at their Lindsay, Ontario plant for a wide range of mills throughout the world. They do everything from a single machine modification or rebuilding, to turnkey projects, including concept engineering, manufacturing and installation.

T.S. Manufacturing makes a full line of log handling and processing equipment, lumber handling and processing equipment, waste handling and processing equipment, complete sawmills, planing mills and wood room installations.

T.S. bark bins, chip and sawdust bins.

Particular Specifications

All steel, bolted construction with minimum field welding required
Modular design
Complete cleaning bottom discharge
Hydraulic clam type gates
Operators platform and ladder
Options:
- Distribution auger and drive unit
- Bin level indicators
- Motion detector on auger
- Access platforms, ladders and safety cages
- Hydraulic power unit to operate jaws

Operational Specifications

The particular specifications are given for estimating purposes only. Apply to the manufacturer for certified prints.

MANUFACTURER:

T.S. MANUFACTURING COMPANY

P.O. Box 487
55 Needham Street
Lindsay, Ontario
K9V 4S5
TEL: (705) 324-6482
FAX: (705) 324-6482
TELEX: 06-962802

MACDONALD AIR COLLECTOR/FILTER

MacDonald collector/filter, type ST, fabricated of heavy HRS steel, all welded construction, consisting of separator, air filtration and bin storage.

The MacDonald air collector/filter is available in PA, RA and ST types. Also manufactured by MacDonald is the ST type storage bin.

Particular Specifications

Constructed of heavy gauge HRS steel panels for bolted assembly. Panel and flanged sections permit maximum support. Models of 3.4 m (11 ft) diameter or less are one-piece, all-welded construction. The unit consists of two sections, primary separation and secondary filtration sections incorporated into one integral self-supporting unit. Unit is zinc chromate primed and finished in high quality enamel.

Primary cyclonic separator integrated with secondary fabric filter reduces dust loading of the filter media.

Automatic cleaning of the filter media by "pulsed" high pressure air allows non-stop operation saving valuable labour and profitable machine production hours.

Available in pull-thru (vacuum) type arrangement where a single system is served by a single MacDonald type "AT" high efficiency exhauster located on the clean air side of the unit reducing HP requirements or the blow-thru (pressure) type arrangement where multiple systems are serviced by multiple MacDonald "HT" material handling exhausters located before the collector's inlet.

Filter bags are maintained from the clean air side of the filter section; the employee works in safety under dust-free conditions saving time and reducing maintenance costs.

Optional Equipment

- Explosion relief venting.
- A variety of filter media to suit the application.
- Pressure differential gauge to show the status of the filter bags.

Operational Specifications

Dust and particle laden air is drawn from various waste generation points and ducted to the inlet.

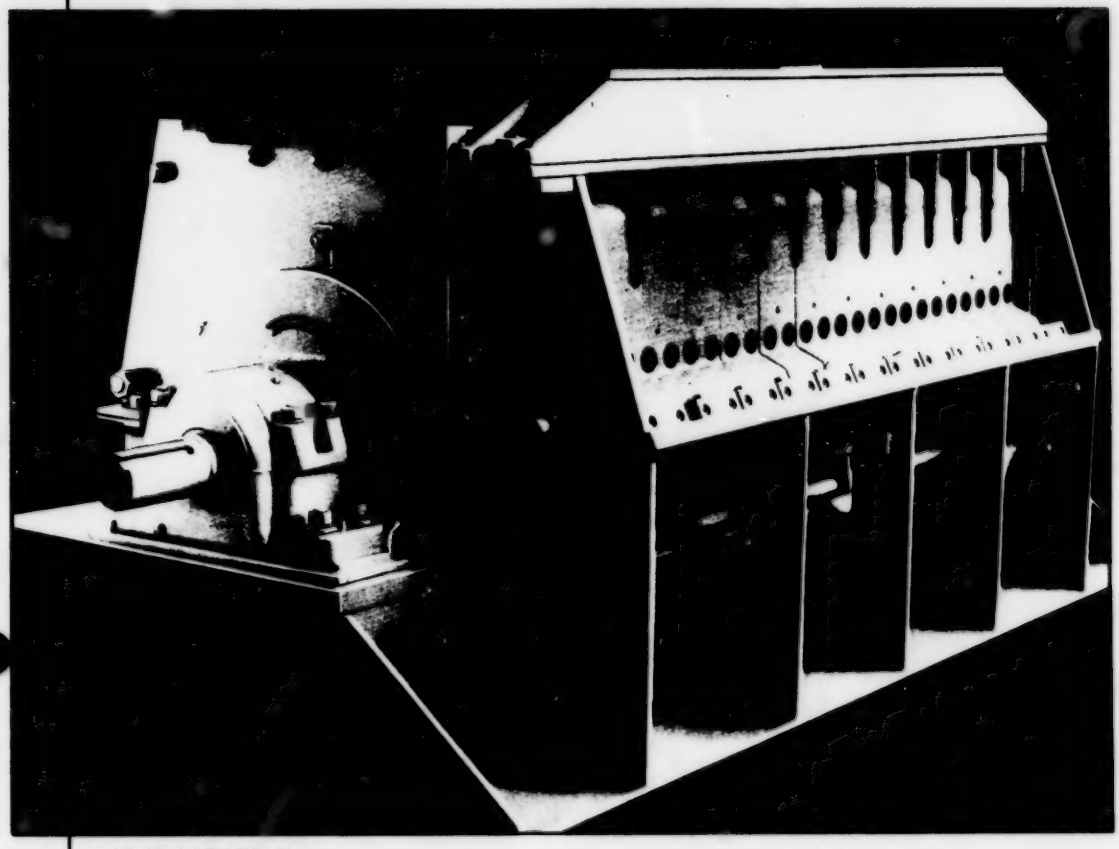
The heavier waste is centrifugally separated from the conveying air in the primary section and discharged through the cone outlet. The finer dust particles are directed upward to the filter section where they are filtered out and the clean air is returned to the plant or to the atmosphere.

MANUFACTURER:

MACDONALD STEEL (1976) LTD.

1556 Industrial Road
Cambridge, Ontario
N3H 4S6
TEL: (519) 653-5795
FAX: (519) 650-0343
TELEX: 069-59356

MONTGOMERY CS-KC MODEL EAT-RITE HOGS



KC Model Eat-Rite Hog (Hammermill).

In addition to CS-KC eat-rite hogs, Montgomery also manufactures XL-KC model eat-rite hogs, Montgomery HZF horizontal feed hogs and Montgomery model A and B spiral design hammer hogs.

Operational Specifications

Two cutting circle options are available on the KC model hogs: a 813 mm (32 in) and a 914 mm (36 in) cutting circle. Same hog configuration is available in the larger size NAS series with a 1372 mm (54 in) cutting circle.

The KC and the NAS model hogs are designed for top infeed and gravity discharge. No flywheels are required because of the large mass of the rotating element. Optional bearing alert unit is available which monitors lubricant temperature in hog bearings and sounds a warning if safe limits are exceeded.

Particular and Mechanical Specifications

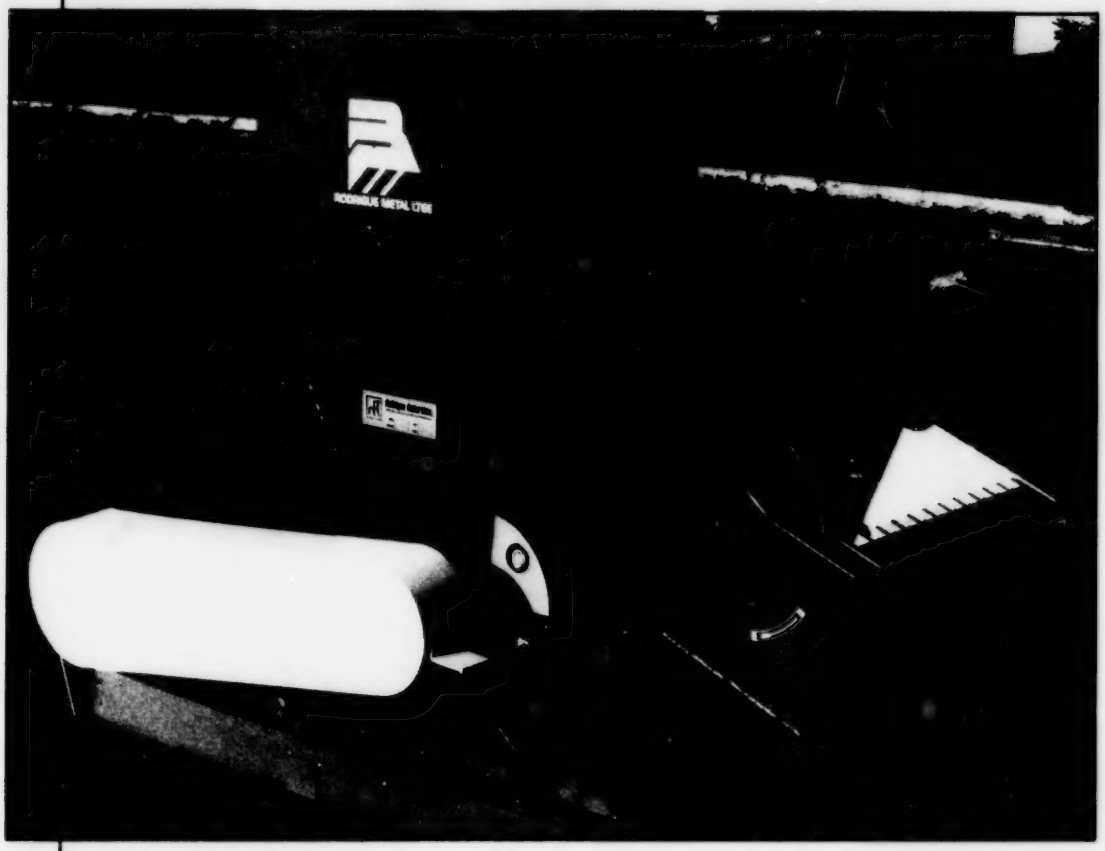
Model	Max. Mill Production		Recommended Power		Weight	
	m^3/hr	(cords/hr)	kW	(hp)	kg	(lb)
21CS-KC	246	(68)		(150)	4990	(11 000)
27CS-KC	315	(87)		(200)	5670	(12 500)
33CS-KC	384	(106)		(200)	6350	(14 000)
39CS-KC	457	(126)		(250)	7031	(15 500)
45CS-KC	526	(145)		(250)	7711	(17 000)
51CS-KC	594	(164)		(300)	8392	(18 500)
57CS-KC	663	(183)		(300)	9072	(20 000)
63CS-KC	738	(203)		(350)	9752	(21 500)
69CS-KC	805	(222)		(350)	10433	(23 000)
75CS-KC	877	(242)		(400)	11113	(24 500)

MANUFACTURER:

MACDONALD STEEL (1976) LTD.

1556 Industrial Road
Cambridge, Ontario
N3H 4S6
TEL: (519) 653-5795
FAX: (519) 650-0343
TELEX: 069-59356

R.M.L. HAMMER HOGS



R.M.L. Hammer hogs can convert heavy materials to useable particles; from large, to fine powder.

R.M.L. specializes in the field of carbide tip saws, cutter heads and specialty knives, as well as hammer hogs. The hogs (hammermills) are available in types L, P and ET of industrial hammer hog types. Models L-205-14, L-308-22, L-410-30, L-513-38, P-32, P-48, P-64, P-88 and P-120 hammer hogs.

Particular and Mechanical Specifications

Type L

	Smallest	Largest
Model	L-205-14	L-513-38
Infeed Opening	24 3/4"x21 1/2"	24 3/4"x52 7/16"
Weight kg (lb)	1724 (3800)	3629 (8000)

Type P

	Smallest	Largest
Model	P-32	P-120
Infeed Opening	12" x 17 5/16"	12" x 59 15/16"
Weight kg (lb)	363 (800)	2 722 (6 000)

Forced or gravity evacuation type
Maximum speed is 2500 RPM

Operational Specifications

The motor base and material inlet is built to meet the particular custom needs.

The engineering design permits the hammer conditions to be checked, as well as to change the mesh calibration easily.

MANUFACTURER:

RODRIGUE METAL LTÉE.

256 rue Jacques-Cartier
St-Romuald, Quebec
G6W 3A9
TEL: (418) 839-0671
FAX: (418) 839-4132
TELEX: 05-13786

GANTRON LUMBER BUNDLE HANDLING, LUMBER GRAPPLE CRANE

The Gantron 5 ton double girder, under-running, lumber grapple crane.

Gantron are manufacturers of standard electric wire rope hoists, overhead cranes & material handling equipment.

Particular Specifications

Maximum bundle height cm (ft)	8.45 (3.33)
Maximum bundle width cm (ft)	10.2 (4)
Capacity kg (tons)	5 080 (5)
Total weight kg (lb)	3 175 (7 000)

Mechanical Specifications

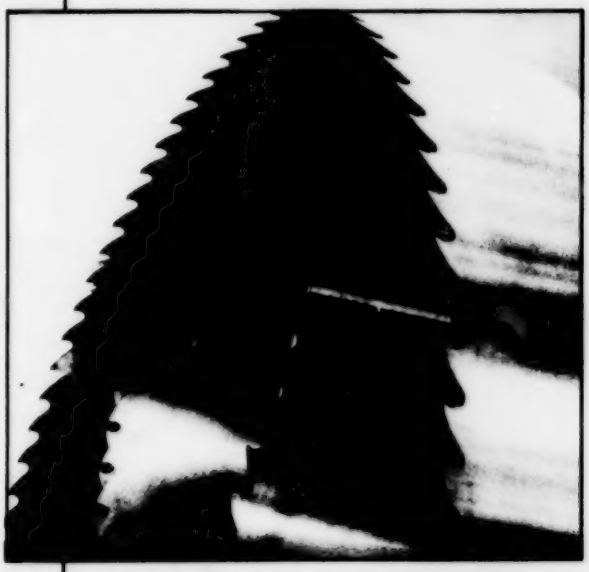
Hoisting speed m/min (fpm)	4.6 (15)
Trolley speed m/min (fpm)	12.2 (40)
Bridge speed m/min (fpm)	36.6/9.1 (120/30)
Power	575 V/3/60 Hz

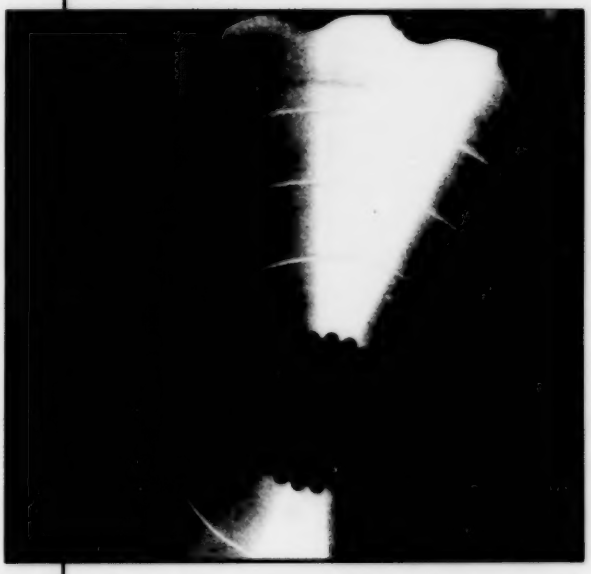
MANUFACTURER:

GANTRON HOISTS LIMITED

P.O. Box 450
5676 Progress Street
Niagara Falls, Ontario
L3E 6T8
TEL: (416) 356-6577
FAX: (416) 356-0900
TELEX: 061-5461

CIS EDGER, AND WIDE BANDSAWS





CIS Bandsaw (top) swage tooth, stellite tipped and edger saw (bottom) stellite tipped splined Arbor pictured.

Swage tooth and Stellite tipped wide bandsaws; and carbide tipped, Stellite tipped, splined arbor edger saws.

Specifications

CIS manufactured wide bandsaws have swaged teeth and are Stellite tipped for extra strength and endurance. Edger saws come in both carbide or Stellite tipped with or without splined arbor.

The Stellite tipping process is by the Iseli system for quality production. The plates are of alloy steel, precision ground.

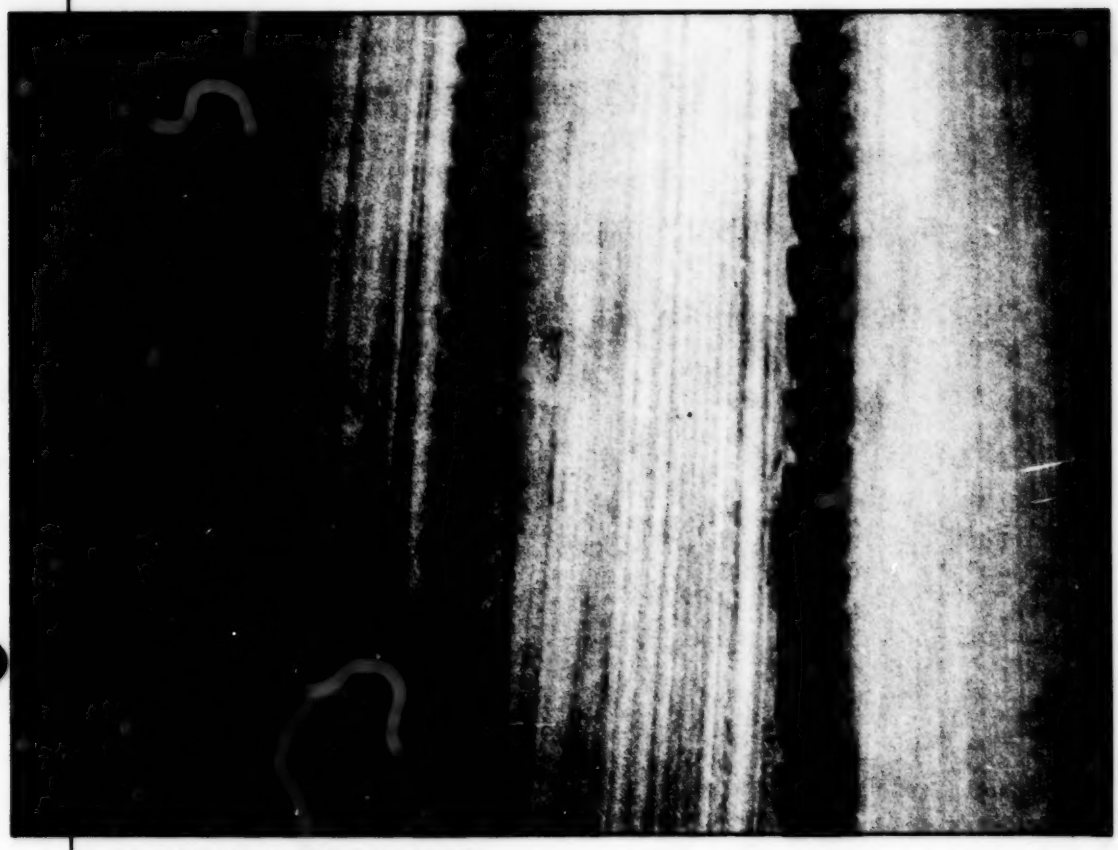
CIS designs other saws for specific applications.

MANUFACTURER:

CHASTON INDUSTRIAL SAW LTD.

315 Edworthy Way
New Westminister, B.C.
V3L 5G4
TEL: (604) 524-0388
FAX: (604) 524-8652
TELEX: 04-532848

CANVIC WIDE BANDSAW BLADES



Canvic band saws as shown here have the uniformity, flexibility, toughness, and edge-holding qualities that ensure high fatigue strength and wear resistance.

Bandsaws blades are available in double cut, simple cut with silver teeth and simple cut. Also available are rip saws, cut-off and trimmer saws and "Strob" saws. Bussieres also offer products and services for the maintenance and repair of tools and equipment.

PRICE: Ranging from $200.00 to $1200.00 depending on size of blades. FOB the plant, with delivery two to three weeks from date of order.

Operational Specifications

The company requires the following information to properly process an order: thickness and kind of material to be cut, type of cut, manual or automatic saw, speed, RPM, complete specifications for the saw presently in use, type of machine, and the quantity of saws required.

Particular Specifications

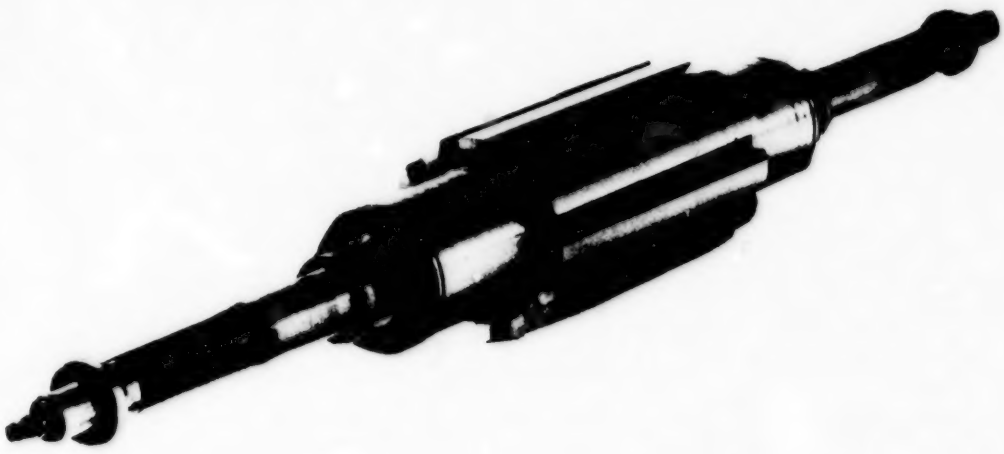
Type	Quantity	Length	Width	Tooth Space	Gauge	Hand	Die
Wide Band	3	10.9 m (36 ft)	25.4 cm (10 ft)	55 mm (2 in)	15	R	BJ
Resaw	2	9.14 m (30 ft)	22.8 cm (9 ft)	50 mm (2 in)	16	L	BG

MANUFACTURER:

VIC BUSSIERES INC.

282 Ouest, Route 111
Amos, Que.
J9T 2X8
TEL: (819) 732-6474
FAX: (819) 732-5298
TELEX: 057-46639

GUERETTE CUTTER HEADS



Guerette cutter heads.

Guerette are specialists in building/rebuilding planer-matchers. They are also fabricators of conveyors, transfer and planer mill equipment, feed tables and breakdown tilt hoists.

Guerette manufactures cutter heads and side heads.

Particular Specifications

Side Heads	6/8/10/12/16 Knives
Models	Vice Grip, Quick Set, Wedge/ Pocket Type, L-Type
Cutter Heads	6/8/10/12/14/16 Knives

MANUFACTURER:

GUERETTE & FRERE LTD.

545 St. Alexandre St.
Longueuil, Que.
J4H 3G4
TEL: (514) 677-2891
FAX: (514) 646-3669

Saw products — Mainland provides a full range of saw products to the wood cutting industry.

Mainland Manufacturing offers an integrated custom manufacturing service to the forest industry. Its businesses include: a ferrous foundry, a machine assembly shop, a fabrication shop, a saw manufacturing shop, belting service centres. The scope of activities includes problem identification, through design solution to precision manufacturing.

Mainland's saw manufacturing capabilities include: bandsaws, gangsaws, edgers, solid tooth saws, inserted tooth, cut-off, inserted point, metal-cutting, specialty saws.

Operational Specifications

Mainland manufactures a complete range of bandsaws from wide and narrow band. The inserted tooth rip and cut-off saws are manufactured from steel with pure martensitic structure after hardening, in standard and narrow kerf. This means that the blades retain their tension at high temperatures, and withstand continuous elastic flexures and repeated impact stresses.

The edger saws are designed to give greater lumber recovery by maximizing kerf reduction. The complete line of solid tooth rip and trim saws are manufactured from nickel-alloy steel.

Mainland provides computerized saw and tooth profile design for all wood cutting applications. It's saw and knife service centre also provides trouble shooting service.

Particular Specifications

Product	Width Min. cm	Max. (in)	Thick. ga	Length m (ft)	Swage	Spring Set	Cutting Tip High speed Stellite	Steel	Carbide
Bandsaws	10 (4)	41 (16)	up to 11 ga	up to 20 (64)	Yes	Yes	Yes	Yes	No
Gangsaws	10 (4)	23 (9)	up to 11 ga	up to 1.8 (6)	Yes	Yes	Yes	No	No
Edgers	Diam. up to 112 (44)		Thick. up to 2 ga	—	Yes	Yes	Yes	Yes	Yes
Solid Tooth Saw	Up to 274 (108)		Up to 2 ga	—	Yes	Yes	Yes	No	No

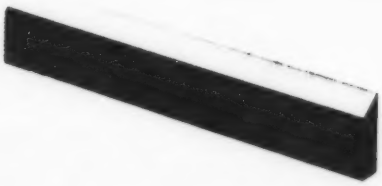
MANUFACTURER:

MAINLAND MANUFACTURING DIVISION

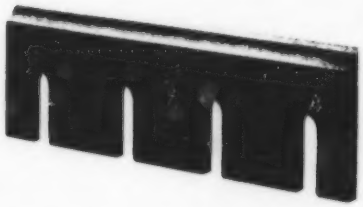
Bow Valley Resource Services Ltd.
15100 River Road
Richmond, B.C.
V6V 1L5
TEL: (604) 273-1455
FAX: (604) 276-0051
TELEX: 04-3555750

R.M.L. CARBIDE TIPPED SAWS, INDUSTRIAL AND CUTTER HEADS

CHIPPER KNIVES



CORRUGATED BACK KNIVES



INLAID HIGH SPEED STEEL PLANER KNIVES

Carbide Tipped Saws, Industrial Knives, and Cutter Heads for virtually any application. The Company also applies their engineering skills to any custom application.

RML specializes in the field of carbide tipped saws, cutter heads and specialty knives, as well as chippers and hammermills.

Standard Carbide Tipped Saws in styles: A, AA straight line rip saws; style B, glue joint rip saws; style C, cut-off saws; style D, smooth-end trimmer saws; style E, smooth trim saws; style F, planer saws; styles G, H, combination saws; style J, safe feed saws; styles N1, N2, plastic cutting saws; trim rim saws, strob saws, dado heads, and groovers.

Industrial knives and cutter heads: Chipper knives, milled to pattern knives, splitters, self-centering devices, round head bodies, L and L.V. heads for milled to pattern knives, spiral cutterheads available for virtually any planer or moulder.

Particular Specifications

The Carbide Tipped Blades are manufactured to meet the rigid engineering and factory standards that have made these tools known in North America. All Rodrigue Carbide Tipped Saws are job engineered to meet specific applications, as it is important to efficient operations, that any saw selected is particularly suited to the job.

Rodrigue cutter heads and knives are made of heat treated alloy steel, accurately machined and dynamically balanced. The Company's facilities enable the design and manufacture of cutter heads and knives for special purposes and invites the opportunity to apply their engineering and manufacturing skills to custom applications.

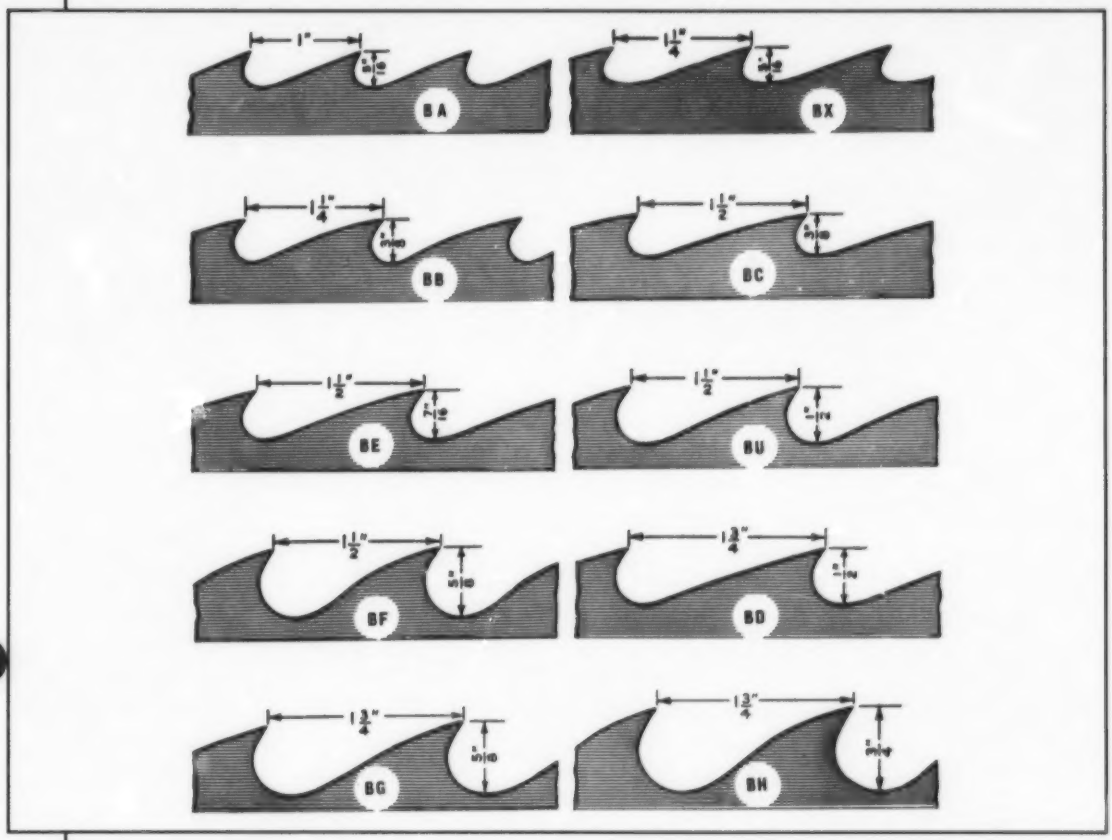
MANUFACTURER:

RODRIGUE METAL LTÉE.

256 rue Jacques-Cartier
St-Romuald, Quebec
G6W 3A9
TEL: (418) 839-0671
FAX: (418) 839-4132
TELEX: 05-13786

SWECAN WIDE BAND SAWS AND RESAWS

Swecan line of products includes chipper canters with 2, 3 or 4 chipper heads; combination chipper canter/twin or quad band saws; single, twin and quad band edgers; 18 in., 26 in. and 30 in. ring type debarkers/spare parts; wide band saw blades/bent chipper knives.



Swecan Wide Band Saws and Resaws.

In addition to manufacturing wide band saws and resaws, the Company maintains a repair service for all sizes of log band saws and resaws. Technicians field service, advise, guide and help users to obtain the highest production.

Particular Specifications

Swedish Nickel Chrome Alloy Steel
Standard dimensions of wide band saws and resaws, available in single cut, double cut or with silver teeth
All band saws over 7.6 cm (3 in) in width are made with a standard 0.016 cm (1/64 in) in 1.5 m (5 ft) back crown, unless otherwise specified on order.

Operational Specifications

To order wide band saws and resaws, the length, width and gauge of the band saw is most generally controlled by the machine size. An example for complete ordering specifications for both wide Bands and Resaws is as follows:

Quantity	Length	Width	Gauge	Tooth Space	Die Letter	Hand
2	37'	10"	16	2"	BI	Right
3	27' 2"	7"	18	1 3/4"	BG	Left

MANUFACTURER:

SWECAN INTERNATIONAL LTD.

Lanoraie, Que.
J0K 1E0
TEL: (514) 887-2313
FAX: (514) 887-2174
TELEX: 05-25609

CETEC SAW READER

Cetec Saw Reader measures, non-flatness, tensioning level, and tensioning symmetry of circular saws.

Cetec Engineering is a complete sawmill equipment manufacturer. From research, through design and manufacture of bandmills, edgers, circular saws, log carriages and sonics.

Particular Specifications

Accuracy mm (in)	± 0.000254 (0.001)
Repeatability mm (in)	0.00051 (0.002)
Max. blade diam. cm (in)	76.2 (30)
Min. blade diam. cm (in)	30.5 (12)
Spline # range	2 to 5
Readout mm (in)	3.0 digits
Power supply	115 VAC

Operational Specifications

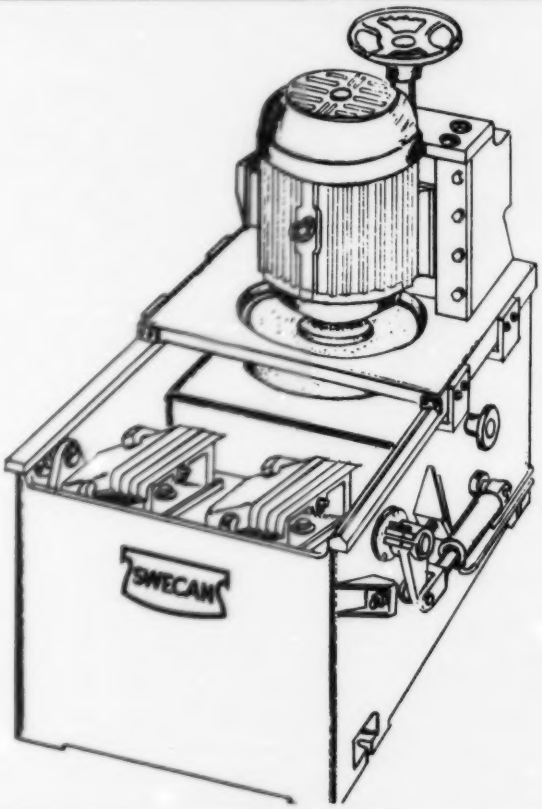
The saw reader measures non-flatness separately from tension, and does it around the circle. Tension level is determined by comparing blade deflection measured at the outside and inside of the blade. Tensioning symmetry is obtained by comparing blade deflections of the two sides of the blade.

MANUFACTURER:

CETEC ENGINEERING COMPANY INC.

5595 Roy Street
Burnaby, B.C. V5B 3A5
TEL: (604) 291-7550

SWECAN AUTOMATIC BENT KNIFE SHARPENER



Swecan Automatic Bent Knife Sharpener.

Swecan line of products includes chipper canters with 2, 3 or 4 chipper heads; combination chipper canter/twin or quad band saws; single, twin and quad band edgers; 18 in., 26 in. and 30 in. ring type debarkers/spare parts; wide band saw blades/bent chipper knives.

Swecan Model CB bent knife sharpener.

Particular Specifications

Major components are made of heavy, rugged cast iron.
Grinding head motor 5.6 kW (7 1/2 hp) x 1200 rpm
Hydraulic drive for carriage and swivel movement 0.74 kW (1 hp)
Fractional coolant recirculating system
Variable automatic down feed
Grinding wheel 40.6 cm (16 in) cup
Diamond wheel dresser
Automatic ways lubrication
Controls and limit switches

Operational Specifications

Fully automatic machine designed especially to obtain an accurate and fast sharpening of bent knives 8.9 cm (3 1/2 in) and 15.2 cm (6 in) depth of cut, with or without offset.

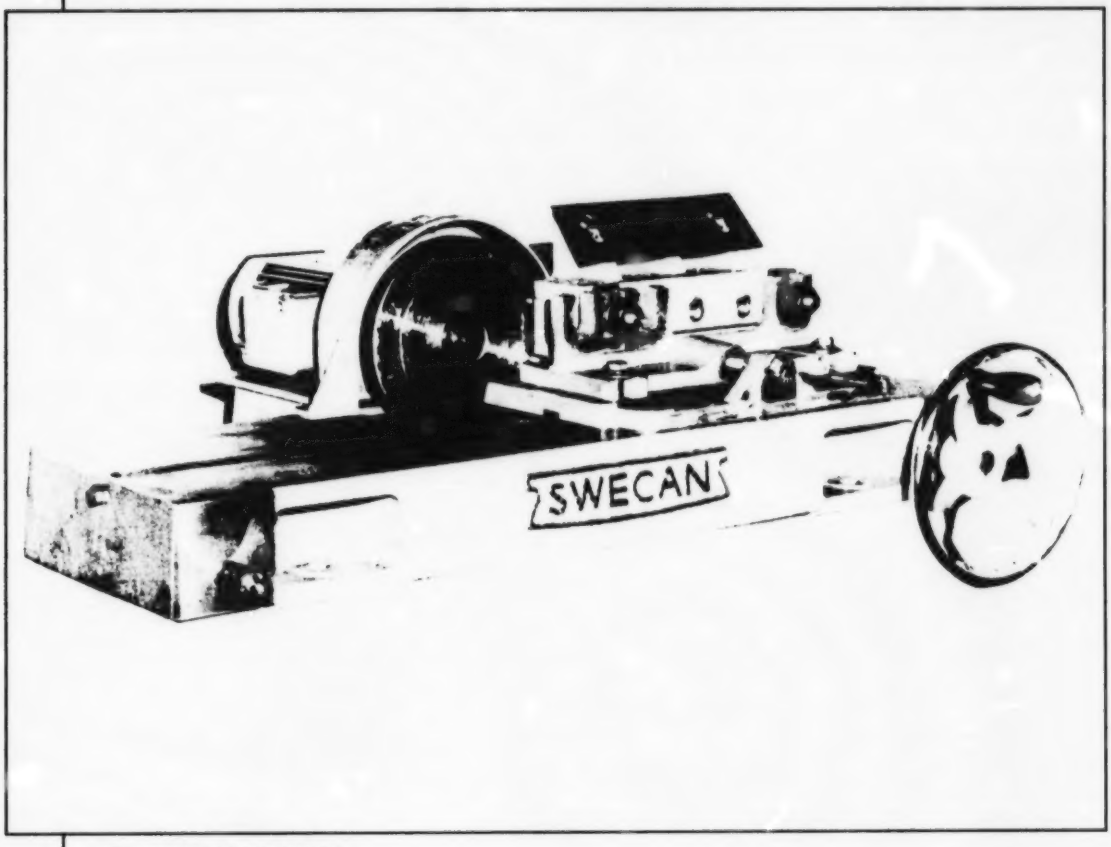
The Swecan sharpener will handle 8 knives at one time (4 LH and 4 RH; 8 RH or 8 LH).

MANUFACTURER:

SWECAN INTERNATIONAL LTD.

Lanoraie, Que.
J0K 1E0
TEL: (514) 887-2313
FAX: (514) 887-2174
TELEX: 05-25609

SWECAN SAW GUIDE BLOCKS AND BABBITT REFACING MACHINE



Swecan Model S19-10-8 Saw Guide Blocks & Babbitt Refacing Machine.

Swecan line of products includes chipper canters with 2, 3 or 4 chipper heads; combination chipper canter/twin or quad band saws; single, twin and quad band edgers; 18 in., 26 in. and 30 in. ring type debarkers/spare parts; wide band saw blades/bent chipper knives.

Swecan Exaguide Model S19-10-8.

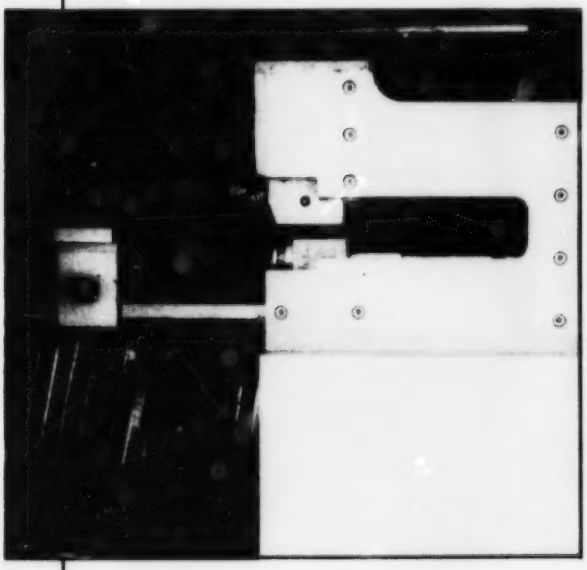
Particular Specifications

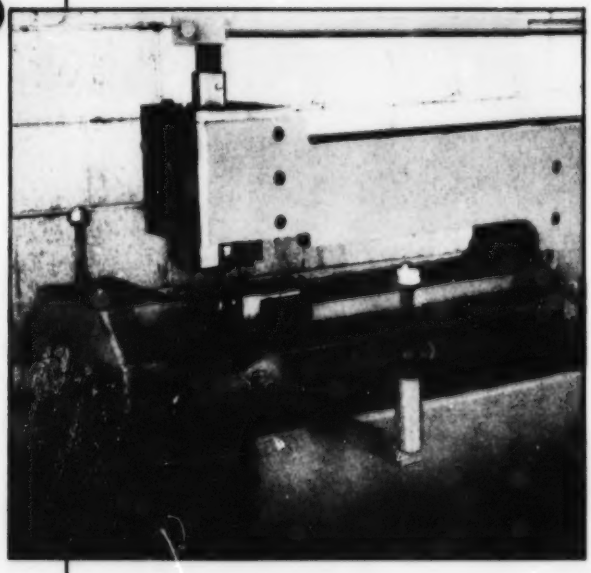
Cast iron base, bench type, 91.4 cm (36 in) long x 61.0 cm (24 in) width.
One surfacing plate on spindle, with 8 tool holders & 8 carbide tools mounted.
Precision travelling table by means of chain & sprockets, manually driven by turning hand crank.
Support for "quick guide" band saw guide blocks.
Carriage travelling 48.3 cm (19 in).
One 1.1 kW (1 1/2 hp) electric motor 550 or 440 volts.

MANUFACTURER:

SWECAN INTERNATIONAL LTD.

Lanoraie, Que.
J0K 1E0
TEL: (514) 887-2313
FAX: (514) 887-2174
TELEX: 05-25609





Williams & White Model 36 (top) and 72 (bottom) circular saw stretcher.

Williams and White Machine Shop specializes in the manufacture of machinery for the filing room.

Stretcher rolls for round saws, models 36, 72, 108, and for bandsaws, and model 17, a bench mounting type.

Bandsaw leveling benches in trac-tru design, 7.3 to 18.3 m (24 to 60 ft); tension gauge grinder of 6.1 to 152 m (20 to 500 ft) radius; tooth setters for saws to 0.635 cm (1/4 in) thick, floating anvil stands for pyramid anvils; carbide brazing stands, micro adjustable (std. or presharp tips); bandsaw weld sanders; gullet crimpers complete; air hammer tables; hydraulic shears; tension gauges, band and round, straight edges; ni-chrome anvils for round saws 25 cm (10 in) dia. to 140 cm (55 in) dia.; ball roller turntables for round anvils; ni-chrome bandsaw leveling slabs from 7 x 20 x 91 cm (4 x 8 x 36 in) to 13 x 36 x 183 cm (5 x 14 x 72 in); ni-hard pyramid anvils, 15 x 15 cm (6 x 6 in) face to 20 x 36 cm (8 x 14 in) face; aluminum I-beam straight edges to 6.1 m (20 ft); welding clamps for 20, 30, and 41 cm (8, 12 and 16 in) saws.

A new round saw centre is available which incorporates the patented dish-o-matic stretcher, floating anvil stand and pyramid anvil.

Particular Specifications

Model, Circular saw stretcher	36	72	108
height cm (in)	122 (48)	191 (75)	264 (104)
length cm (in)	152 (60)	152 (60)	152 (60)
width cm (in)	61 (24)	76 (30)	76 (30)

Compact unit for filing room use

Mechanical Specifications

Power 0.56 kW (3/4 hp) Crofts Ritespeed 220/440, or 550 volts electric motor

Hardened and ground rollers
Roller bearings throughout
Head equip. with heavy duty bearings
Double support arms for saw stability
Side motion adjustment
Dishing and de-kinking device available

Operational Specifications

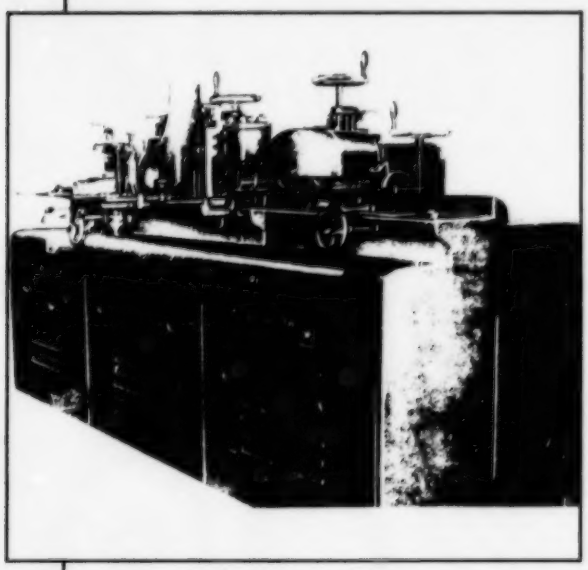
All units are for sawmill filing rooms and saw manufacturing plants. They are sturdy and of all steel construction (except for the anvils). All units are used to aid or assist in conditioning saws for efficient sawmill operations. All units (where applicable) come with 220/440 volt electric motors as standard. Also 110, or 550 volt motors are available as an option. Rolls and dies are all of hardened and ground tool steel. All leveling slabs are made of a special tough cast material, while sawmakers anvils are hardened throughout, and ground.

MANUFACTURER:

WILLIAMS & WHITE MACHINE SHOP LTD.

6307 Laurel Street
Burnaby, B.C.
V5B 3B3
TEL: (604) 293-2268
FAX: (604) 879-1133

COMACT MOULDER



Comact T 206C Moulder with cabinet type construction, cast iron frame, motors and starters located in the base.

Comact are specialists in the manufacture of sawmilling equipment.

Comact manufactures the model T 206C 4 head and 5 head moulding machine.

Particular Specifications

Floor space (4 head machine) cm (in)	96.5 (38) x 236 (93)
Shipping weight kg (lb)	1 476 (3 255)
Floor space (5 head machine) cm (in)	96.5 (38) x 320 (126)
Shipping weight kg (lb)	2 132 (4 700)

Mechanical Specifications

Motor, top/bottom heads kW (hp)	7.5 (10) - 3,600 rpm - 3 ph
Motor, side heads kW (hp)	3.7 (5) - 3,600 rpm - 3 ph
Motor, jointing head kW (hp)	2.2 (3) - 3,600 rpm - 3 ph
Motor, feeding system on 4-head mach. kW (hp)	1.5 (2) - 1,800 rpm - 3 ph
Motor, feeding system on 5-head mach. kW (hp)	2.2 (3) - 1,800 rpm - 3 ph
Speed of cutter heads rpm	6,390
Feed speeds m (ft)/min	7.3 (24), 12.8 (42), 18.3 (60)
Four feed rolls on 4-head moulder, diam. cm (in)	12.7 (5)
Six feed rolls on 5 head moulder, diam. cm (in)	12.7 (5)

Operational Specifications

The table is stationary, with the exception of the section after the last head, which is adjustable in all directions.

The four-knife round heads turn at high speed on heavy ball bearings and are adjustable vertically and horizontally.

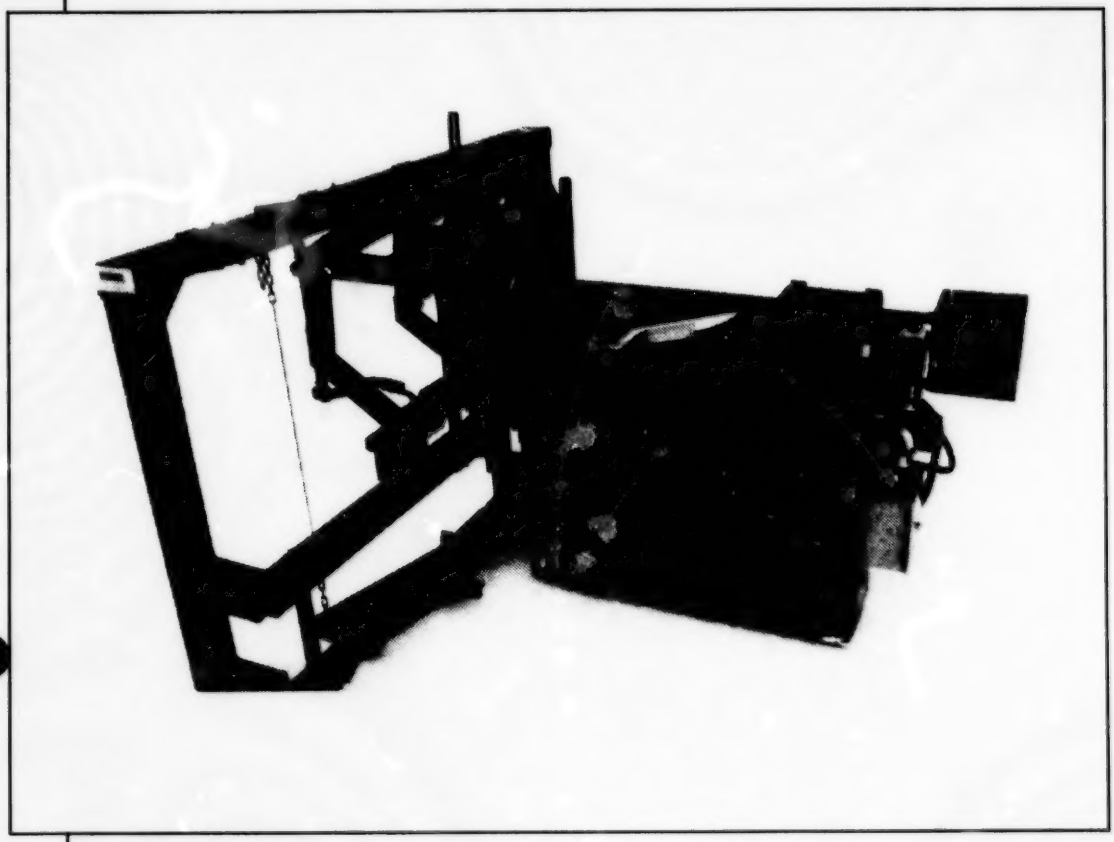
Maximum capacity of rough stock, cm (in) is 15.9 (6.25) by 7 (2.75). The maximum capacity of finished stock, cm (in) is 15.2 (6) by 6.4 (2.5). The minimum capacity of finished stock in cm (in) is 0.64 (1/4) by 1.3 (1/2). Maximum cutting circle in cm (in) is 16 (6 5/16). Shaving outlets on 15.2 cm (6 in) heads is 12.7 cm (5 in) and on 7 cm (2 3/4 in) heads is 10.2 cm (4 in).

MANUFACTURER:

COMACT INC.

4000 40e rue
St-Georges, Que.
G5Y 5K5
TEL: (418) 228-8911
FAX: (418) 228-7466
TELEX: 05-833510

DESJARDINS SHINGLE MILL



Desjardins shingle mill, a one-man operated machine.

Desjardins Shingle Mill is available with power take-off attachment, making it possible to use the 540 RPM P.T.O. from any medium size tractor. Also available in regular model RE86X, or hydraulic model HY81 versions.

PRICE: Approx. $8,500.00 F.O.B. St-Andre, Que. (1988)

MANUFACTURER:

LES INDUSTRIES DESJARDINS LTÉE.

79 rue Principale
St-Andre, Quebec
G0L 2H0
TEL: (418) 493-2114
FAX: (418) 493-2432

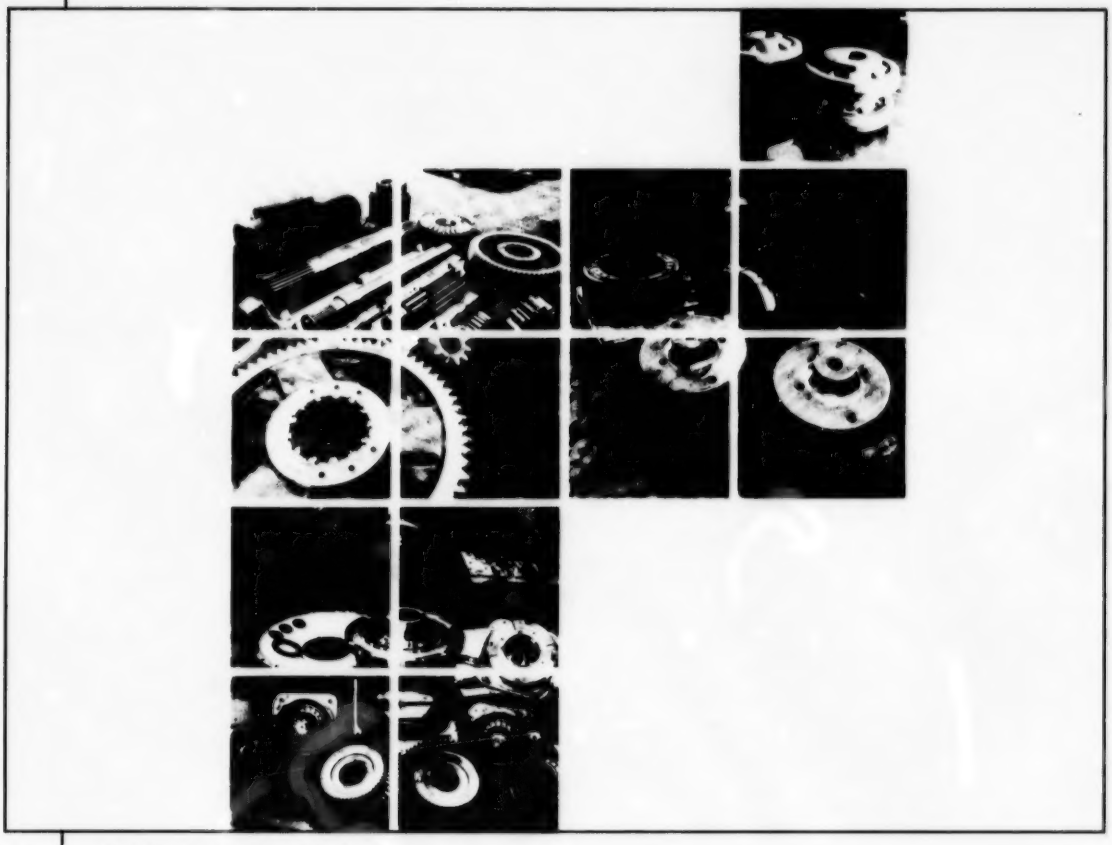
Particular and Mechanical Specifications

Physical Measurements of Mill	2.6 x 2.3 x 1.7 m high (8.5 x 7.5 x 5.5 ft high)
Weight of mill	1 361 kg (3 000 lb)
Diameter of edger saw	914 mm (36 in)
Diameter of shingle saw	965 mm (38 in)
Power required	18.6 kW (25 HP)
Speed of main and edger shaft	1,500 RPM
Options	For making 1/2 and 3/4 in. thick butts on shingles; also for making mine wedges up to 1 1/4 in. thick. Special heavier spurs 1 1/2, 1 9/16 and 1 5/8 in. are available. Special rachet wheel with five teeth for 5/8 in. thick or six teeth for 1/2 in. thick shingles.

Operational Specifications

The mill makes finished shingles from green round blocks cut 406 or 457 mm (16 or 18 in) long, at the rate of 20 shingles per minute or 6-7 bundles per hour. One cord of scrap tip logs can be processed into approximately 20-25 bundles of shingles per eight hour shift.

MAINLAND EQUIPMENT PARTS



Mainland can supply parts for heavy duty equipment guaranteed to meet or exceed the original specifications. Shown is the complete propel transmission (left), and differential and planetaries (right).

Mainland Manufacturing offers an integrated custom manufacturing service to the forest industry. Its businesses includes: a ferrous foundry, a machine assembly shop, a fabrication shop, a saw manufacturing shop, belting service centres. The scope of activities includes problem identification, through design solution to precision manufacturing.

Mainland will provide single source manufacturing of parts, utilizing foundary, machining and assembly capabilities.

Particular Specifications

Mainland is committed to exceed recognized standards through the establishment of precise metallurgical controls, and the use of programmable computer numerical controlled machinery. The Company provides custom design changes and modified chemistries to enhance mechanical properties for longer service.

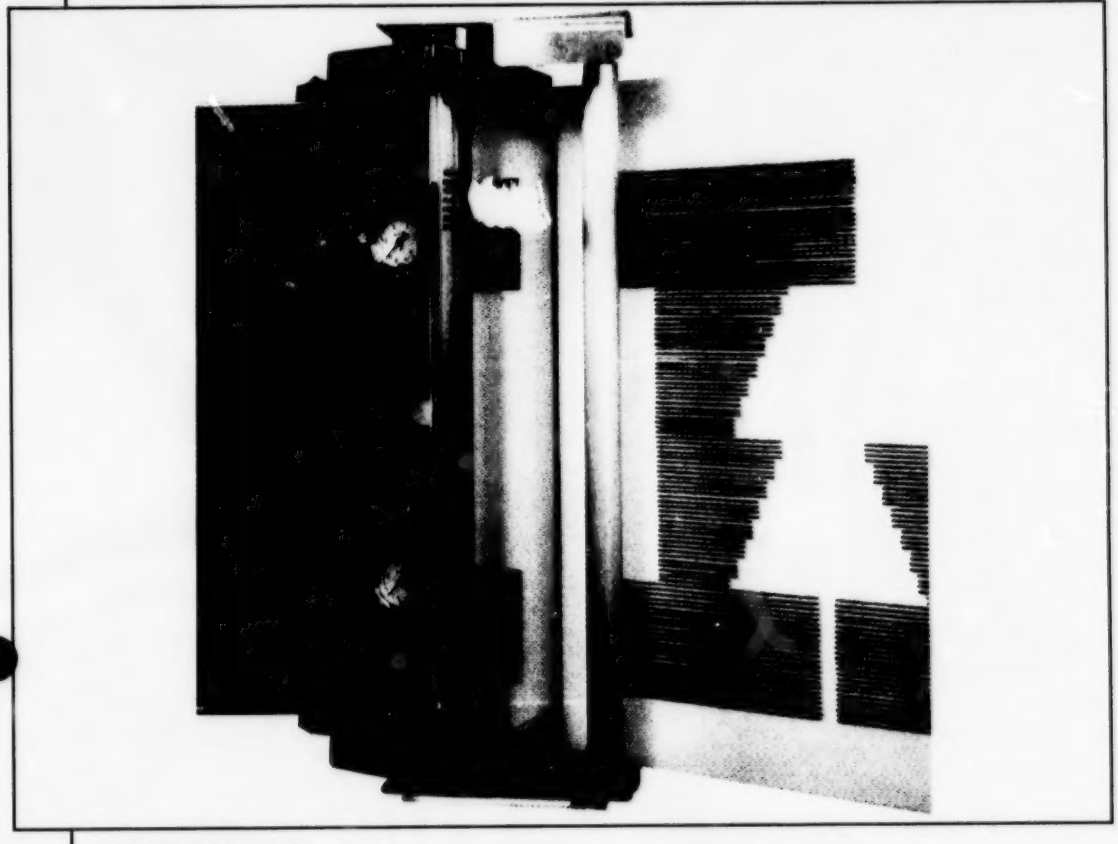
In addition to manufacturing original and replacement parts, Mainland provides a wide range of repair services.

MANUFACTURER:

MAINLAND MANUFACTURING DIVISION

Bow Valley Resource Services Ltd.
15100 River Road
Richmond, B.C.
V6V 1L5
TEL: (604) 273-1455
FAX: (604) 276-0051
TELEX: 04-3555750

MULTI-MEG COMPUTERIZED AUTOMATED LUMBER STENCILER



Multi-Meg Automated Lumber Painter.

PRICE: Products are customized to the clients personal needs, therefore the price of $100,000.00 is only approximate and subject to change.

Particular Specifications

Located at the end of the working line, this modern piece of equipment indicates on every bundle of lumber exiting the sawmill, the quality, the quantity and the logo, thereby decreasing the cost of manpower and raw materials, such as paint and templates.

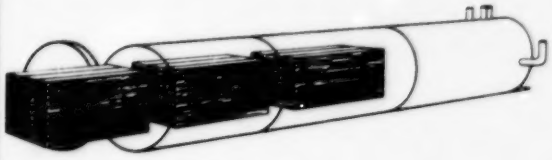
The system features: automated ink stenciling, micro processor controlled system, uniform bold legible marks.

MANUFACTURER:

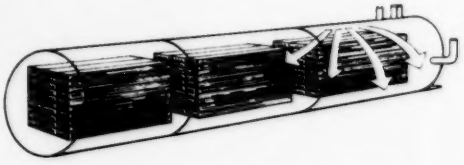
MULTI-MEG ELECTRONICS LTD.

3675 Grand Allee
Boisbriand, Quebec
J7H 1H5
TEL: (514) 435-2121
FAX: (514) 430-3407
TELEX: 05-25134

TIMBER SPECIALTIES PRESSURE TREATMENT PLANTS

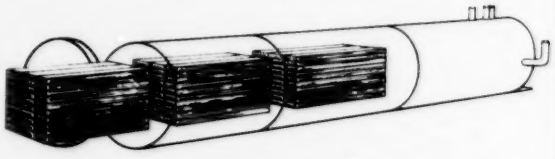


1 UNTREATED WOOD. Seasoned lumber entering cylinder.



3 PRESSURE APPLIED. Vacuum maintained, solution admitted, and pressure applied, impregnating wood.

2 VACUUM PERIOD. vacuum created, eliminating all air from wood cells thereby increasing treatment receptiveness.



4 FINISHED WOOD. Treated wood impregnated with CCA preservative or Flame Proof LHC.

Timber Specialties provide turnkey pressure treating plants, from design, through construction, to start up and beyond.

Timber Specialties Ltd., wood preservation experts, provide a total package of treating plants, chemicals, engineering support, marketing and sales.

T.S. are manufacturers of Gen II Incisor models #16015, #1600, #1500.

Particular Specifications

Treating cylinders are designed to match any capacity or pressure treating requirement; single or double automatic doors and bridging, tanks, compressors, pumps, semi-automatic or computer process controls, special handling/conveying systems, pre-assembled and tested, skid mounted units.

Timber Specialties also manufacture CCA preservative used in the plants. Compatible treating solution additives, such as Weathershield for water repellancy and Sunwood, a special brown colourant, are also available. Flame Proof LHC, a superior, low hygroscopicity fire retardant applied through the same pressure treating process, is also manufactured and distributed by Timber Specialties.

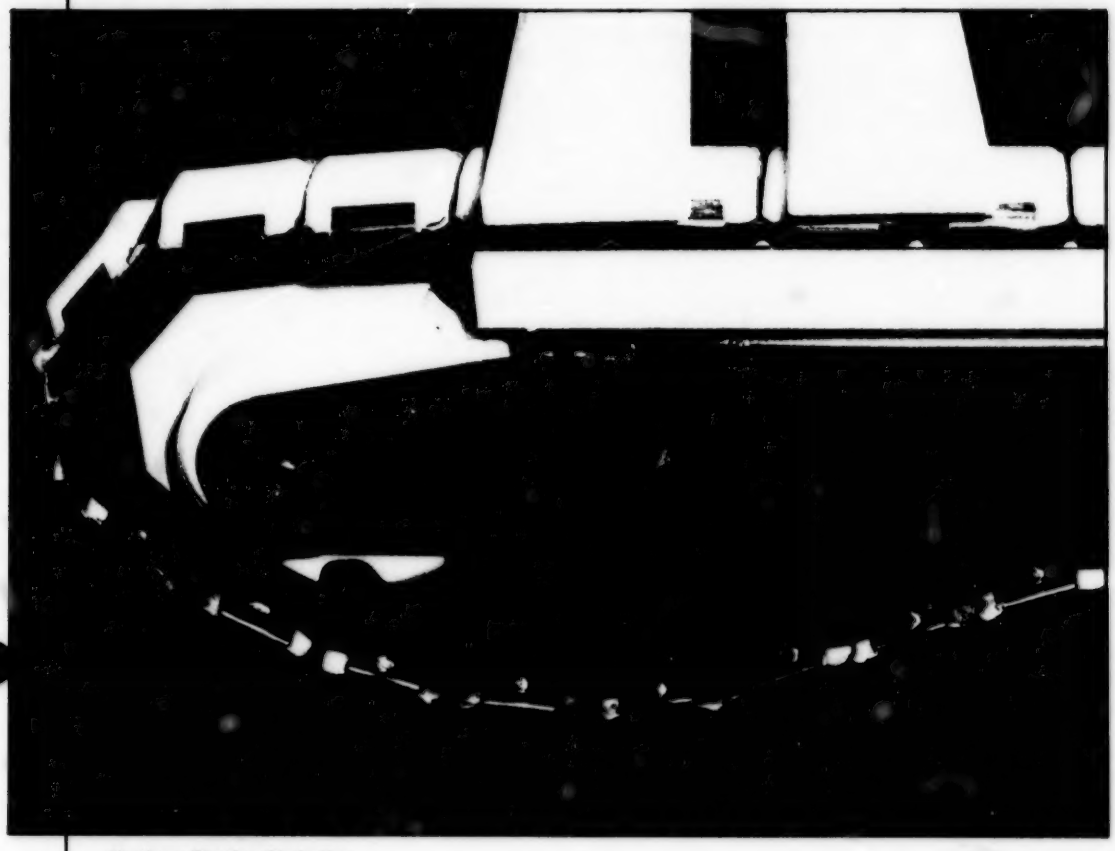
Timber Specialties can supply, recommend and integrate a number of ancillary products into any plant's operation. These include forklifts, incisors, dryers and special processing equipment. Aftermarket products ranging from adhesives and nails to special encapsulation systems for marine pilings and products/services, that will extend the service life of utility poles or bridge structures, are all available through Timber Specialties.

MANUFACTURER:

TIMBER SPECIALTIES LTD.

6511A Mississauga Rd.
Mississauga, Ontario
L5N 1A6
TEL: (416) 821-7820
FAX: (416) 821-9220

NORTHERN PLASTICS CHAIN CAP



Northern Plastics Chain Cap used for landing tables, discharge chains, ending transfers, stacker transfers, pull chains and areas where there is possibility of material down-grading because of chain marking.

Northern Plastics are processors and fabricators of UHMW and polyurethane products for the forest industry. These include: Chanex UHMW Channel, UHMW and polyurethane sprockets, polyurethane J-hooks, chain cap, UHMW conveyor flytes, UHMW roller lugs. The Company also extrudes a great variety of shapes and sizes UHMW in rod, tube and flatbar.

Particular specifications

Material: U.H.M.W. Ultra High Molecular Weight P.E.
Low cost
Can be welded to existing chain 81X or H78, or installed on new chain
Minimal lumber marking
Low friction on boards
Smooth, quiet operation
Has recessed retainer clip for high tooth sprockets

MANUFACTURER:

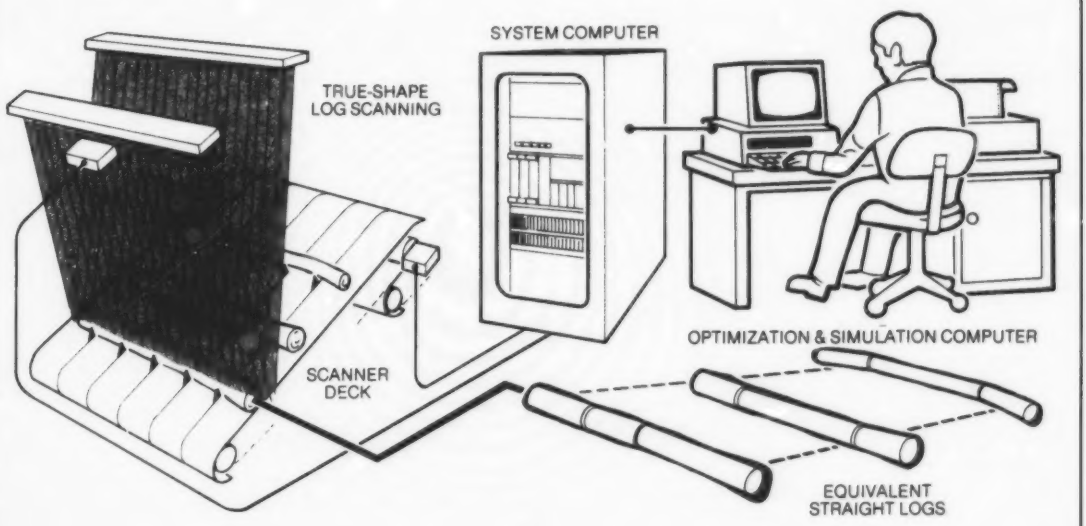
NORTHERN PLASTICS LTD.

P.O. Box 2122
Salmon Arm, B.C.
V0E 2T0
TEL: (604) 832-9452
FAX: (604) 832-1885

ELECTRONICS

Log Optimizers
Saw Guidance Systems
Setworks
Process Control Systems
Complementary Equipment

SOFTAC LOG BUCKING, OPTIMUM LOG VALUE SYSTEM



The optimum log value system enhances log utilization, increases productivity and improves profits through lumber value or volume optimization.

Computerized system for log bucking providing: true-shape scanning, optimum log breakdown, automated operation and superior merchandising data.

Lloyd/Softac are manufacturers of computerized optimizing systems, hydraulic setworks, edgers and trimmers, log carriage drives, process controls, special packaged drive systems.

Operational Specifications

The Softac Optimum Log Value System provides process control for primary log breakdown, data for process management, and off-line capability for detailed planning and marketing analysis.

It consists of four subsystems: system computer (on-line), log scanner, slasher deck & log sorting controls, and optimization & simulation computer (off-line).

The most important factor for increasing profits is optimizing yield from each log harvested and processed into lumber. Log bucking is where analysis of a variety of information is crucial to the primary breakdown procedure. Since actual log shape affects value, the system considers taper, crook and sweep in pre-calculating the optimum "straight logs" and equivalent straight logs that can be bucked from each stem.

A digital image derived from diameter, length and shape for each log passing through the scanner, is received at the system on-line computer. The actual log shape is real time analyzed, compared to optimum bucking routines stored in the computer, and matched with its optimum bucking solution, which is displayed on the operator control console. Optimum bucking decisions are generated, based on green lumber values and computer analysis of data on current market value of finished lumber, grade yields, finishing costs and production requirements.

The computer provides process control for automated operation of primary log breakdown.

Information on log volume entering the mill is also used to generate management reports.

MANUFACTURER:

LLOYD (SOFTAC) LTD.

3046 Westwood Street
Port Coquitlam, B.C.
V3C 3L7
TEL: (604) 464-8505
FAX: (604) 464-2242
TELEX: 04-353563

NEWNES AUTOMATION OPTIMIZER SYSTEMS

Newnes Automation offers optimization for each machine centre: bucking, primary breakdown, cant optimization, edger optimization, trimmer optimization and lumber sort stations.

Newnes Machinery develops and produces products for the forest mill industry. Among the equipment being used by mills in Canada and the U.S. are Newtronic Lug-Loaders; Automatic Lumber-Stackers; Sorters and Stick Placers; Trimmers; Strip Saws; Tilt Hoists; Package End Presses; Package Doublers; Transfers; Roll Cases; and Auto Hopper Fillers.

A subsidiary, Western Industrial Programming, designs and produces control systems for lumber sorters, stackers, trimmers, edgers and conveying systems. Another subsidiary, Northern Plastics processes and fabricates UHMW and Polyurethane products used in mill operations.

Operational Specifications

Same sensors for trimmer, edger and cant optimizers.
Modular design allows easy replacement of sensors.
Air purge system for dust removal.
Simple and fast calibration procedures.
Process visibility with millwide computer networking.

The optimizer systems match the manufacturing process to each machine centers' capabilities through a common set of variables.

The optimizer can evaluate export grades, domestic grades, resaw and re-edge alternatives on any piece scanned. Cut logic allows for multiple species and grades to be run simultaneously. Optimizer allows computer simulations of parameter changes and effects on mill productivity.

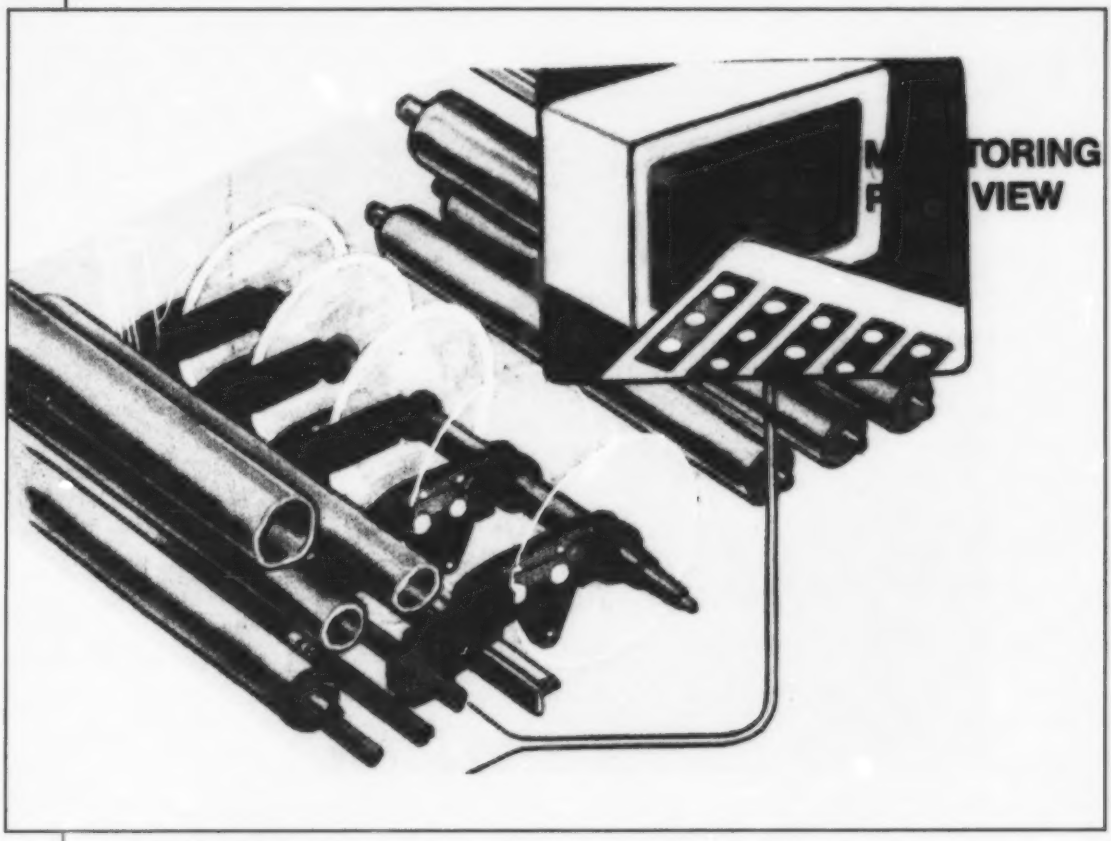
Particular Specifications

	Measurement Accuracy				Measurement Range		
	Thickness cm (in)	Width cm (in)	Length cm (in)	Production Speed, LPM	Thick. cm (in)	Width cm (in)	Length m (ft)
Trimmer							
Wane up & down	0.25 (.01)	.064 (.025)	0.25 (0.10)	120	0.56 (0.25) to 15.2 (6)	7.0 (2.8) to 61 (24)	1.8 (6) to 8.5 (28)
Edger							
Wane up & down	0.25 (.01)	.064 (.025)	15.2 (6)	65	0.56 (0.25) to 15.2 (6)	7.0 (2.8) to 91.4 (36)	1.8 (6) to 8.5 (28)
Cant							
All orient.	0.06 (.025)	0.06 (.025)	15.2 (6)	20	10.2 (4) to 30.5 (12)	10.2 (4) to 91.4 (36)	1.8 (6) to 8.5 (28)

MANUFACTURER:

NEWNES MACHINE LTD.

P.O. Box 8
Salmon Arm, B.C.
V0E 2T0
TEL: (604) 832-7116
FAX: (604) 832-9810
TELEX: 048-8380



Installation of the smart saw on a gang saw application. Photo shows the existing and installation views.

Cetec Engineering is a complete sawmill equipment manufacturer. From research, through design and manufacture of bandmills, edgers, circular saws, log carriages and sonics.

The smart saw is a saw guidance system consisting of a set of saw guides (active and passive), an induction heating power supply, and a microprocessor controller.

Shifting saw application, shifting edger and gang saw applications are common.

Operational Specifications

The Smart Saw is a guidance system that optimizes saw stiffness, allowing reduction in kerf of up to 50 percent.

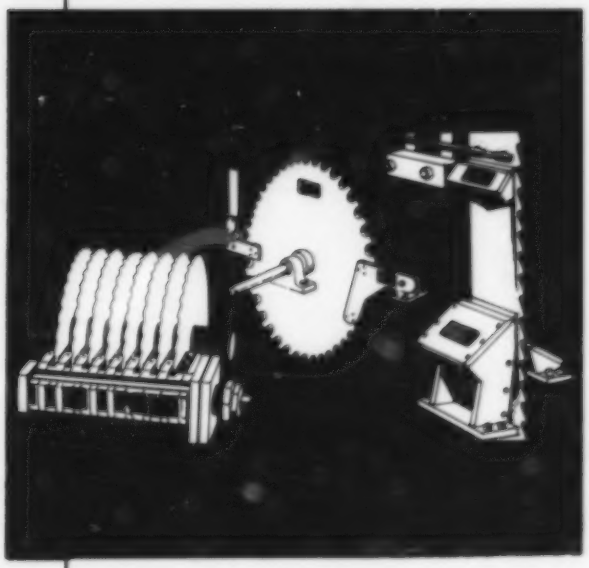
In a sawblade, the vibration level and stiffness vary with the stress distribution between the saw eye and the gullet. This stress distribution may be altered by changing the temperature distribution in the blade. A particular sawblade runs best at one optimum temperature gradient. When the temperature at the eye gets much higher than at the gullet, the blade begins to cup and vibrate. Similarly when the gullet temperature gets much higher than the eye temperature, the blade begins to wrinkle and loose its stiffness. A typical sawblade changes temperature continuously during cutting.

The Smart Saw system is programmed to maintain the optimum temperature gradient during operation by introducing small amounts of heat into the blade through two induction heating coils. One heating coil is located close to the gullet, and the other close to the eye. Each of the coils can heat the sawblade with sufficient power for all but extreme conditions.

MANUFACTURER:

CETEC ENGINEERING COMPANY INC.

5595 Roy Street
Burnaby, B.C.
V5B 3A5
TEL: (604) 291-7550



Pacific/Hoe guide systems boost mill production for edgers, band saws and circular head rigs.

Pacific/Hoe is a leader in guide systems technology. The company can design and custom fit a guide system that meets requirements and optimizes production of edgers, band saws and circular head rigs.

For edgers, reduce kerf with the thin saw babbit guide system. Available with the E-Z Flo Programmable Lubricating System using non-soluble oil.

For band saws, the double-pressure band guide systems can be custom fit for better feed and greater accuracy. They can also be custom fitted to small resaws or horizontal resaws.

For circular head rigs, the floating collar guide system reduces kerf and improves cutting accuracy.

Particular Specifications

BAND GUIDE SYSTEMS

Cartridge style guide, double pressure system. Guide holders are rigidly built of heavy T1 steel. Top guides, bottom guides and guide blocks insure accuracy to ± .001 inch. Guide blocks are of tough, long wearing phenolic composite material (Celeron). Blocks give 3 inches of wear area.

BAND GUIDE SYSTEMS FOR SMALL RESAWS

Available for single and twin band resaws, as well as saws for bevel and angle cuts. Oil mist guide lubrication system is used on small resaws to reduce water usage. This is a distinct advantage where freezing water is a problem or where no water is allowed.

All band saw systems come with milling fixture and dial indicator for setting the cutting tool. The machined blocks can be inspected to assure that each one is exactly the same.

CIRCULAR BABBITT GUIDE SYSTEM

Guide arms are durable, made from heat-treated T1 steel, chrome or nickel plated. Adjustable sleeve so system can be repositioned laterally. Arms rotate back and the saw can be removed easily. Net cuts can be varied by changing spacers between guide arms and guide pad thickness. Optional hydraulic closing unit which releases for quick change of saws. The unit produces 10,000 lbs. of tightening pressure ensuring guides remain tight during operation. Babbitt shifting guides are designed to give full support to the saw as the pad extends from the gullet almost to the arbor. Lubrication is run through the guide pad to prevent the saw from overheating.

The model H2B is a double head milling machine for milling both sides of gang edger saw guide pads. The single head model H1B machine is designed to mill edger shifter guide pads, where the babbitt pad is on one side of the guide arm only.

CIRCULAR HEAD SAW FLOATING GUIDE SYSTEM

The cutting edge is held stable with two preset 4 3/8 in. guide pads. The saw is driven by the hub or collar fitted on a stub arbor. The collar can move sideways freely, so if the saw gets in a bind, it can move without damaging the blade. The saw will automatically return to the normal cutting position.

E-Z FLO PROGRAMMABLE LUBRICATING SYSTEM

Enhances environmentally sound milling using a minimum of water in mill operations. Water, oil and air are programmed in combination using a synthetic base oil that is not soluable in water.

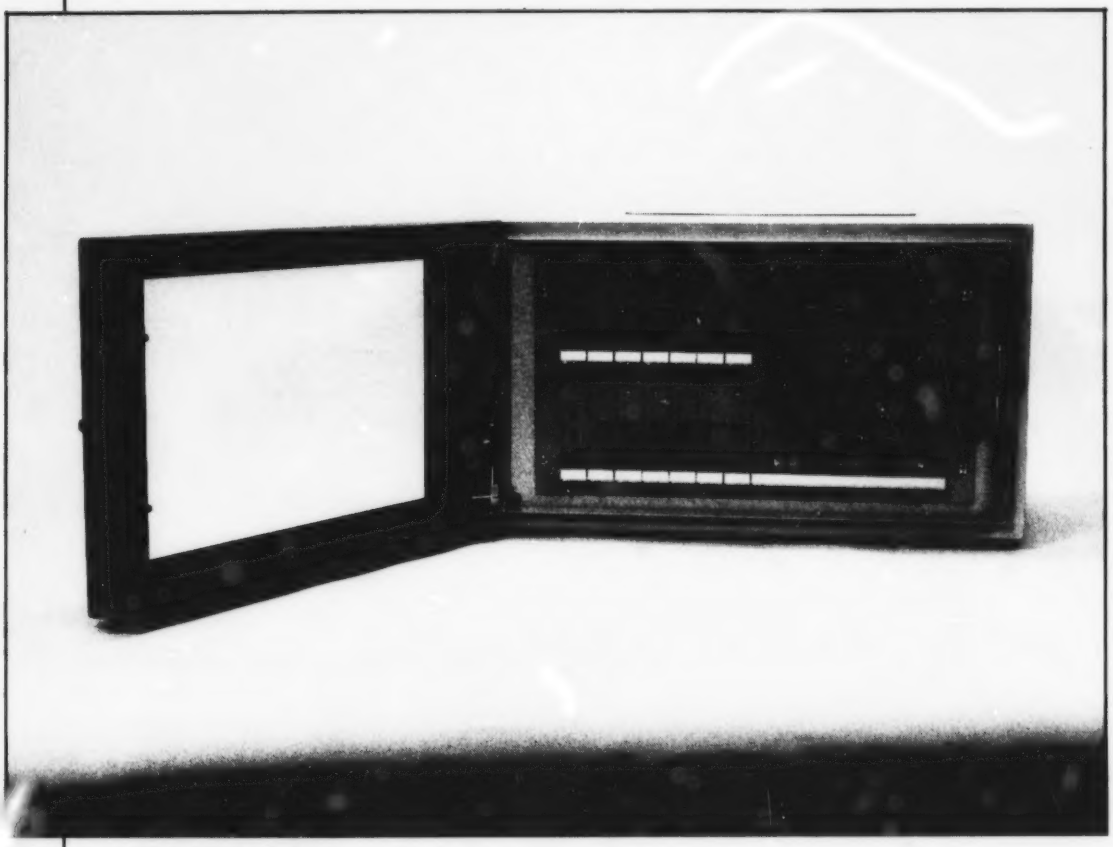
The E-Z Flo lube system can supply oil to all cutting stations with one simple power unit mounted on a 757 Litre (200 gal) capacity lube tank.

MANUFACTURER:

PACIFIC/HOE CANADA LTD.

2401 Canoe Avenue
Coquitlam, B.C.
V3K 6A9
TEL: (604) 941-5152
FAX: (604) 941-0720
TELEX: 043-53542
TOLL FREE:
1-800-663-SAWS

MULTI-MEG SETWORKS



The Multi-Meg Setwork, by controlling a hydraulic cylinder, can create from 1 to 5 movements, symmetrical or asymmetrical.

Multi-Meg setwork model Sm 12, and other setworks.

PRICE: The Sm 12 is the smallest and least expensive of the Multi-Meg range of setwork. The products are customized to the clients personal needs, and the approximate price for this model is $3,500.00 and subject to change.

For the larger setwork, the approximate price is $20,000.00 and subject to change.

Physical Specifications

Height cm (in)	35 (13 25/32)
Width (max) cm (in)	60 (25 5/8)
Depth cm (in)	38.2 (15 1/32)

Mechanical Specifications

Micro-processor 16 bit 8088
Up to 288 input/output
Precision cm (in) 0.0025 (.001)
Control: servo-valve actuator
Can be directly interfaced with the Multi/Scan Scanner

Operational Specifications

The Multi-Meg Sm 12 controls the positioning of a hydraulic cylinder. The latter can be connected to a twin, an edger, etc. Positions are given by the twelve button console, embedded in the computer case. Installation is straightforward.

The Multi-Meg Setwork, by controlling a hydraulic cylinder, can create from 1 to 5 movements, symmetrical or asymmetrical. The setwork via the hydraulic cylinder, can move a wide range of sawmill industrial equipment.

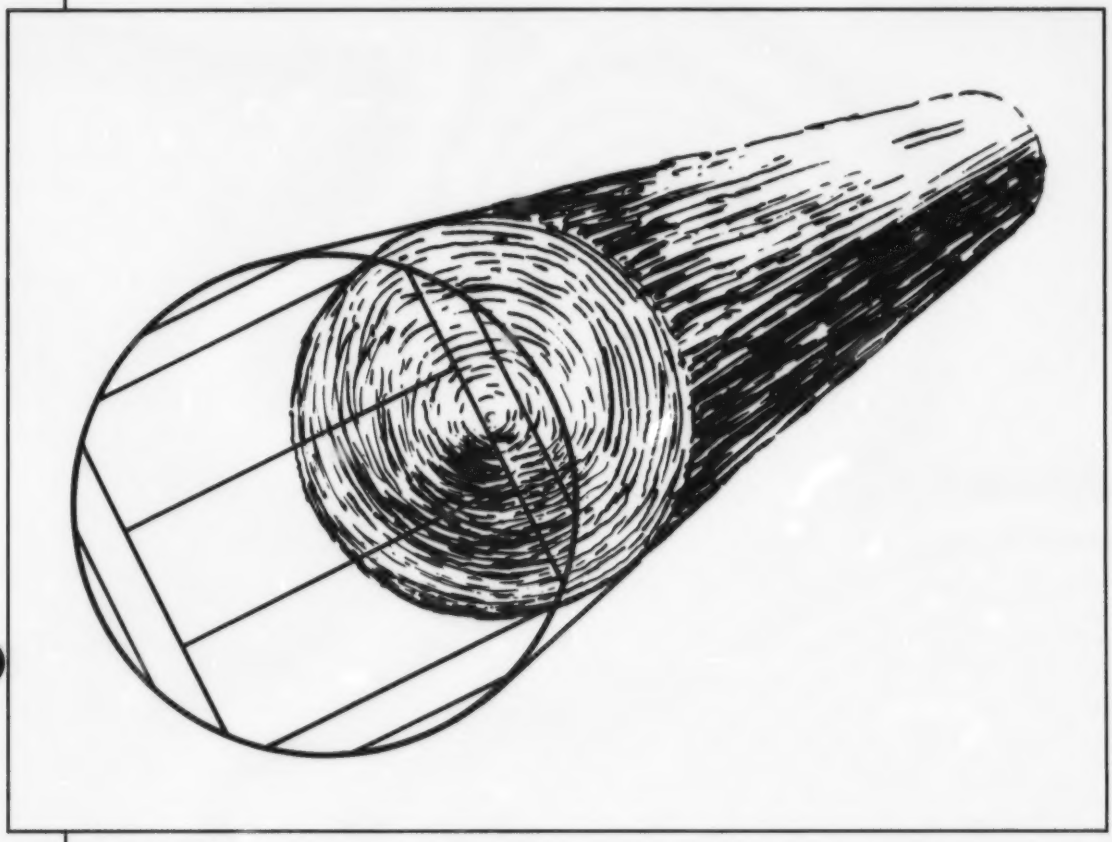
Consoles are made of 8 to 16 positions, and can be connected to any cylinder.

MANUFACTURER:

MULTI-MEG ELECTRONICS LTD.

3675 Grande Allee
Boisbriand, Quebec
J7H 1H5
TEL: (514) 435-2121
FAX: (514) 430-3407
TELEX: 05-25134

SOFTAC STANDARD LOG-CALC



Softac Log-Calc Setworks System.

Softac is a diversified sales, engineering and manufacturing company.

The Softac Log-Calc System can be adapted to new and existing carriages, allowing the user to cut lumber with a higher degree of precision.

Operational Specifications

The best or required cant and board sizes are automatically calculated by Log-Calc, based on the log's true dimensions. This is instantly pictured on the console. The console puts the sawyer in control of cant size, offsets, mutltiples, set buttons, stack editing, taper, log length, slabber and special functions.

The offset feature allows the operator to select from several user programmable sideboard cutting strategies. The cant can be offset, minimizing 2.5 cm (1 in) boards or allowing for recovery of an additional sideboard.

Printed information gives management a quick and accurate measure of daily productivity and efficiency.

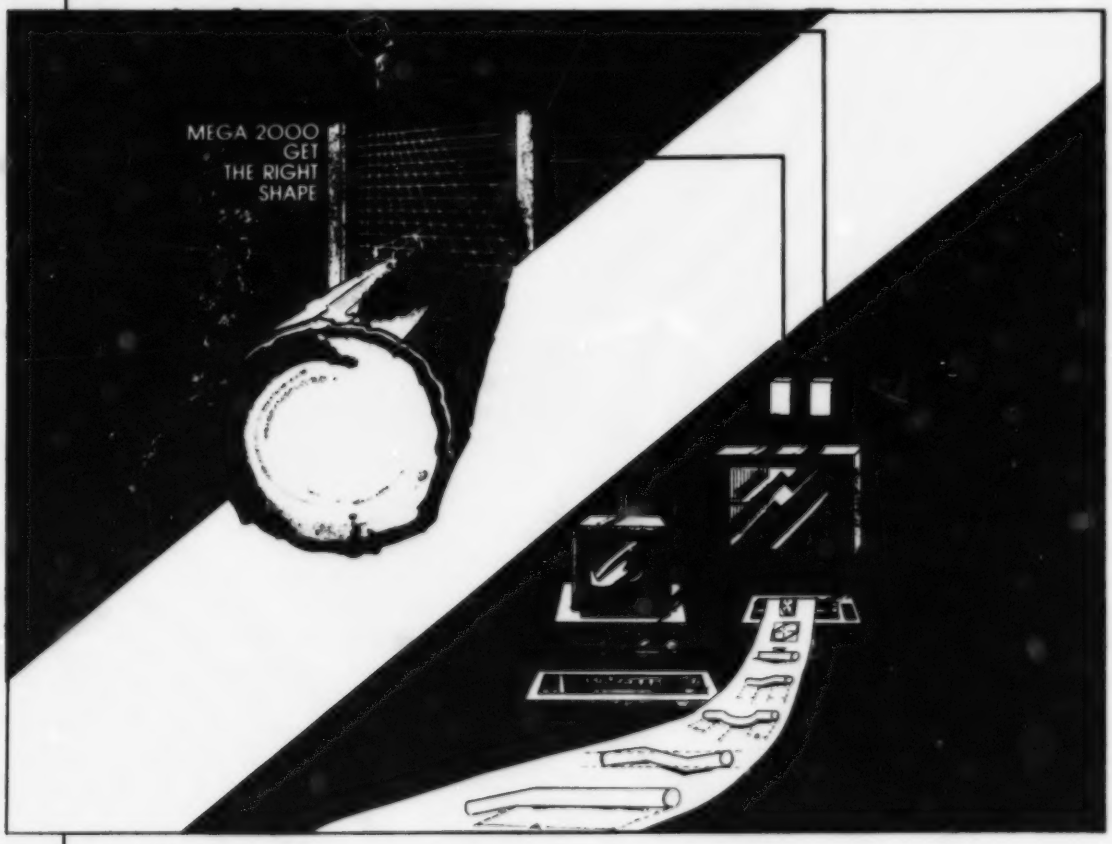
In addition, the setworks can be used to further control a slabber, if required.

MANUFACTURER:

LLOYD (SOFTAC) LTD.

3046 Westwood St.
Port Coquitlam, B.C.
V3C 3L7
TEL: (604) 464-8505
FAX: (604) 464-2242
TELEX: 04-353563

MULTI-MEG SCAN AND SET



Multi-Meg Scan and Set.

PRICE: The products are customized to the clients personal needs, (1988) prices are approximate at $45,000.00, and subject to change.

Particular Specifications

Height cm (in)	35 (13 25/32)
Width (max) cm (in)	60 (25 5/8)
Depth cm (in)	38.2 (15 1/32)

Operational Specifications

The Multi-Meg Scan and Set measures logs with the help of infrared scanning heads, and sets the saws according to the log dimensions. It controls log passage in the saws by the activation of the conveyor. It also generates production reports on the number of logs, volume, length, time loss, material loss, etc.

MANUFACTURER:

MULTI-MEG ELECTRONICS LTD.

3675 Grande Allee
Boisbriand, Quebec
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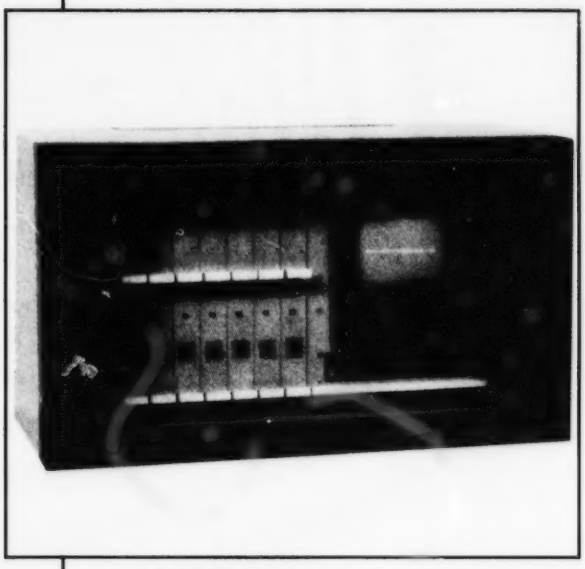
TEL: (514) 435-2121
FAX: (514) 430-3407
TELEX: 05-25134



The Mega-Scan log scanner system is designed to control and manage a complete saw mill process.

The Mega-Scan System consists of a scanner linked to an intelligent interface with the capability of measuring: diameter, length, taper, and sweep.

PRICE: Products are customized to the clients' personal needs. An approx. price of $35,000. for the Multi-Meg Tally, and subject to change.

Technical Specifications

The Multi-Meg Tally is a log measurement system used to control and manage the sawing process. It is composed of Scanning Heads connected to an intelligent interface. The latter can control the diameter, the length, the conical shape and the log's curvature. The Multi-Meg Tally is one of the few industrial systems for controlling a log's curve. This element is important to sawmills because it permits them to minimize the loss caused by curved logs.

One of the Multi-Meg Tally's most important features is the scanning speed. For logs with a small diameter, it is particularly fast. Even with logs of 229 cm (90 in), it takes only 3.75 thousandth of a second to obtain their diameter.

Another of its essential elements is the number of scans per second. It can vary from 267 per second for a 229 cm (90 in) log, to 500 per second for 25 cm (10 in) log. This permits the Multi-Meg Tally to keep an accuracy of 40 thousandth of an inch despite a conveyor's speed.

The last feature is particularly important to the Eastern Canadian sawmills, because of their constant decreasing diameter of logs extracted from the forest. The whole conversion process can be speeded up to keep the same production volume, while permitting high precision levels, at the increased conveyor speed of 457 m/min (1500 ft/min), instead of the more traditional 246 m/min (800 ft/min).

The Multi-Meg Tally uses a modular system of construction, and is easy to increase the Scanning Heads height to control logs up to a maximum height of 406 cm (160 in).

Many Mega-Scan systems can be connected together in a network, allowing a global control of operations.

Particular Specifications

	Scanning Heads	Cabinet	Power Supply
Height cm (in)	84 (33 1/4)	48 (19)	36.2 (14 1/4)
Width cm (in)	12.7 (5)	60 (23 5/8)	31.1 (12 1/4)
Depth cm (in)	10 (4)	38.7 (15 1/4)	15.9 (6 1/4)

MANUFACTURER:

MULTI-MEG ELECTRONICS LTD.

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Boisbriand, Que.
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TELEX: 05-25134

MULTI-MEG CROOK AND SWEEP DETECTOR

Multi-Meg Crook and Sweep Detector.

PRICE: Products are customized to the clients personal needs, and the 1988 prices are approximately $50,000.00, and subject to change.

Specifications

The Multi-Meg Crook and Sweep Detector permits the operator to verify a log curvature, to eliminate logs with a marked curvature that could break the saw, and classify those requiring a special cut.

By classifying crooked logs into eight different types of curves, it is possible to reduce mechanical breakdown, and the corresponding production loss.

MANUFACTURER:

MULTI-MEG ELECTRONICS LTD.

3675 Grand Allee
Boisbriand, Que.
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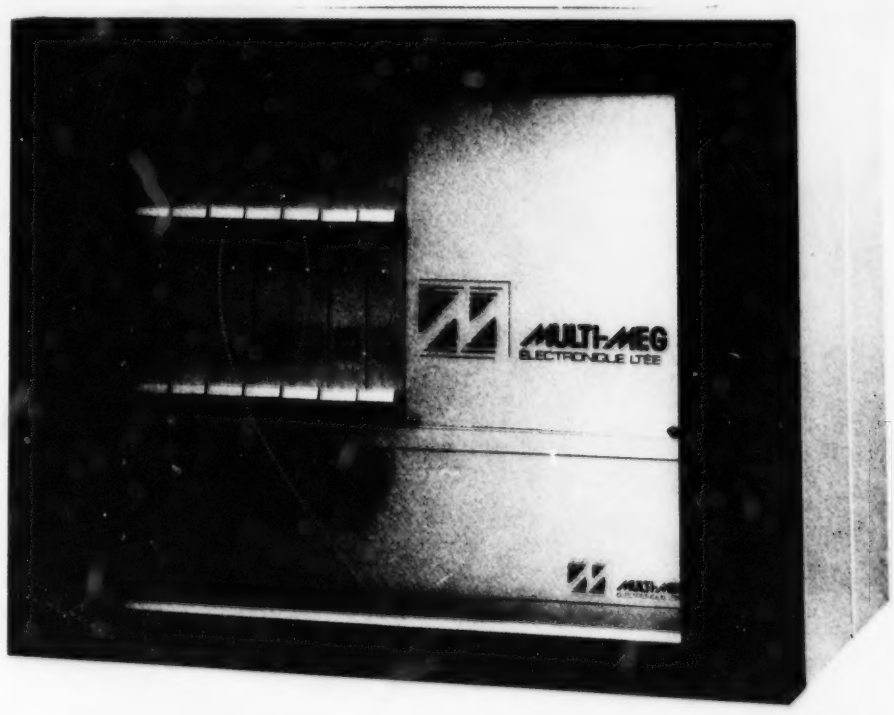
TELEX: 05-25134

MULTI-MEG LUMBER TALLY



Multi-Meg Lumber Tally.

PRICE: The products are customized to the clients personal needs, prices are approximate and subject to change: $25,000.00.

Particular Specifications

Height cm (in)	35 (13 25/32)
Width (max) cm (in)	60 (25 5/8)
Depth cm (in)	38.2 (15 1/32)

Operational Specifications

The Multi-Meg Lumber Tally generates a report containing the plank dimensions. It does not send the pieces to the bin, like the Bin Sorter. It is a good tool for sawmill management control.

MANUFACTURER:

MULTI-MEG ELECTRONICS LTD.

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TELEX: 05-25134

PORTER SCANNER ACTIVATED PROCESS CONTROL SYSTEMS

Canscan Log Scanner (top), and an operator console and booth (bottom), produced by Porter Engineering Ltd. for the process control systems.

Porter Engineering specializes in scanning systems for the primary log bucking and log breakdown areas.

The Company manufactures Servoset positioners, Canscan scanners and Canscan Vision camera systems, and supplies complete process control systems which typically include: a prewired operator booth and console, a computer based scanner system, PLC based machine controls, Servoset setworks, and optimization software.

Particular Specifications

CANSCAN Vision Systems

- Solid state LED matrix array cameras in environmental housings
- Interfaced with microcomputer via a dedicated set of pipeline processors
- Generates dimensional data in real time
- Accurate to ±0.1 inch in diameter, and ±1.0 inch in length
- Scan time 0.30 sec.
- Software includes full management reports, snapshot reports, shift simulation, and optional terminal simulation to allow use of IBM-PC terminal
- Prewired and pretested operator cab and computer room, supplied with a complete CanScan vision process control system.

Operational Specifications

In addition to log scanning and machine control, a CANSCAN system provides management with log input and lumber output data, video screen or printed reports, diagnostic and quality control functions, and calculates optimum log cutting patterns based on current lumber market prices and demand.

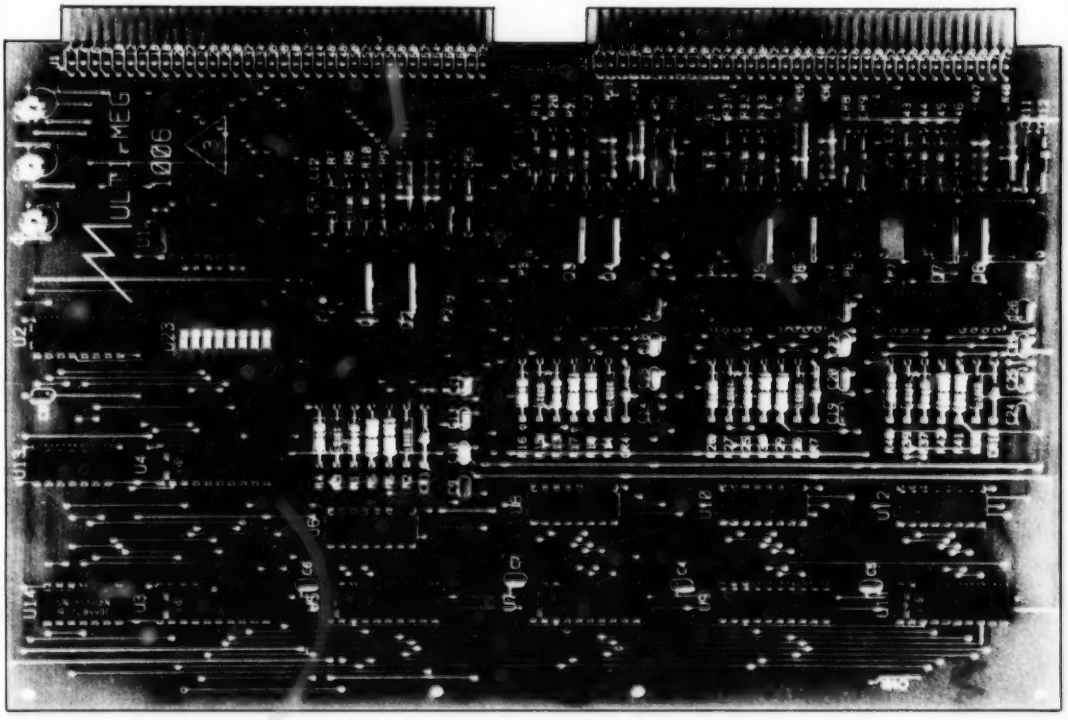
The CANSCAN system will interface with all types of primary and secondary breakdown machines from log bucking to trimming, including headrig carriages, and log quad or twin bandmills, with the latest types of sharp chain infeeds.

MANUFACTURER:

PORTER ENGINEERING LTD.

5800 Cedarbridge Way
Richmond, B.C.
V6X 2A7
TEL: (604) 273-1868
FAX: (604) 273-6635

MULTI-MEG PRINTED CIRCUIT DESIGN AND ASSEMBLY



Multi-Meg Printed Circuit Design and Assembly.

Multi-Meg Electronics, through the use of computer technology, offers services in the design of printed circuit artworks, and in the assembly of electronic circuits.

Particular Specifications

The Company through the use of computer technology, offers their capabilities in the design of printed circuit artworks.

Number of layers: up to 50
Minimum distance between lines: 0.025 cm (0.01 in)
Minimum width of lines: 0.025 cm (0.10 in)
Houston DMP tracing table capable of output to photo plotter

Prototypes, or many circuit designs are handled by Multi-Meg's experienced personnel, supported by modern equipment performing assembly with quality control inspection at each stage.

MANUFACTURER:

MULTI-MEG ELECTRONICS LTD.

3675 Grand Allee
Boisbriand, Quebec
J7H 1H5
TEL: (514) 435-2121
FAX: (514) 430-3407
TELEX: 05-25134

MULTI-MEG OPERATOR CABIN

PRICE: Products are customized to the clients personal needs, with an approximate price for the operator's cabin of $30,000.00, and subject to change.

Particular Specifications

Height m (ft)	2.1 (7)
Width (max) m (ft)	3.0 (10)
Depth m (ft)	2.4 (8)

The dimensions can vary according to client needs.

Operational Specifications

The Multi-Meg Operator Cabin is a room with a controlled environment containing controls for the saw equipment. The controlling consoles activated by an operator, or robot, can activate the different sections of the industrial machinery.

MANUFACTURER:

MULTI-MEG ELECTRONICS LTD.

3675 Grand Allee
Boisbriand, Que.
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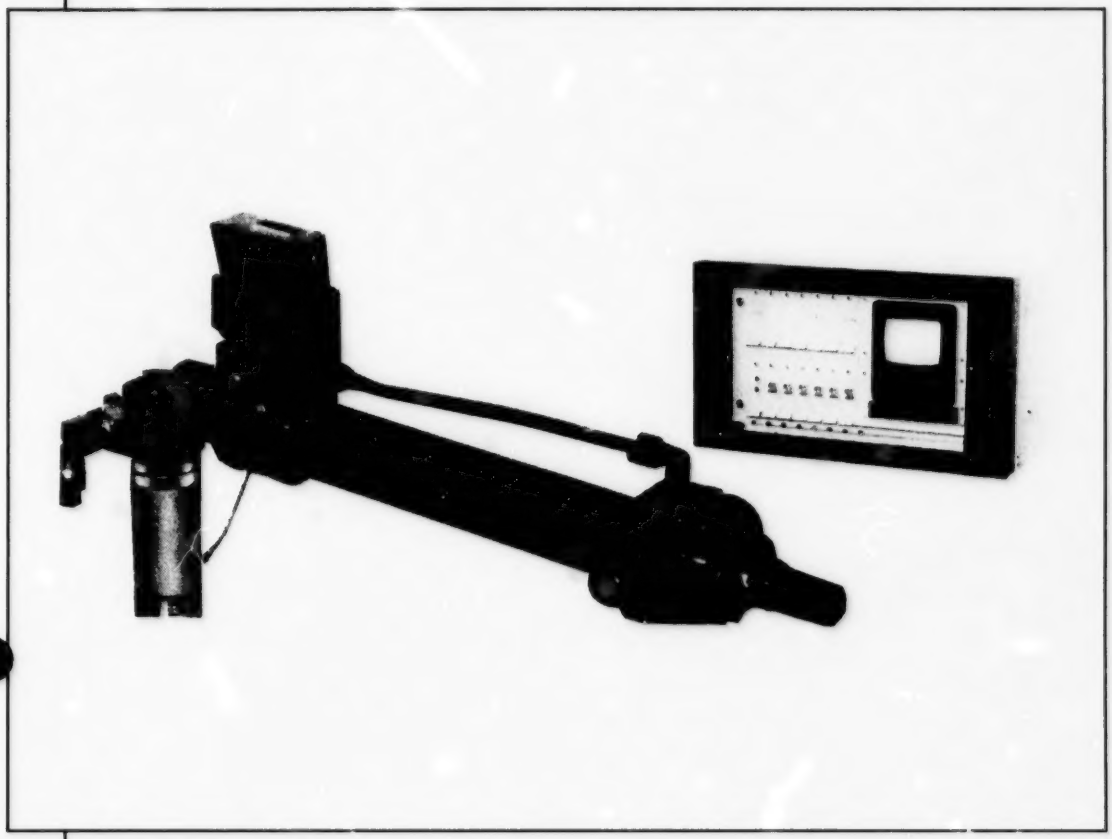
TELEX: 05-25134

COMACT SERVOACTUATOR



Comact Servoactuator available in english or metric units of measure.

Program and sequences controlled by computer for Twin bandsaws, Quad, Line bar, Chipper Canter, Edger, others.

Particular Specifications

Servoactuator:

Bore cm (in)	6.4 (2.5), 8.9 (3.5), 10.2 (4), 12.7 (5) CYS 2.5, CYS 3.5, CYS 4.0, CYS 5.0
Stroke cm (in)	0 @ 30.5 (12), 0 @ 61 (24), 0 @ 91 (36), 0 @ 122 (48), 0 @ +

Mechanical Specifications

Servoactuator:

Operating pressure (max) grams/cm² (psi)	175,767 (2500)

Processor:

Micro-processor	8088-16 Bits
No. of servo-cylinders	4
Input-Output	288 max.
Video screen display	

Options:
- Servo-cylinder timing
- Offset system
- Log scanner and optimizer
- Custom built software

MANUFACTURER:

COMACT INC.

4000 40e rue.
St-Georges, Que.
G5Y 5K6
TEL: (418) 228-8911
FAX: (418) 228-7466
TELEX: 05-833510